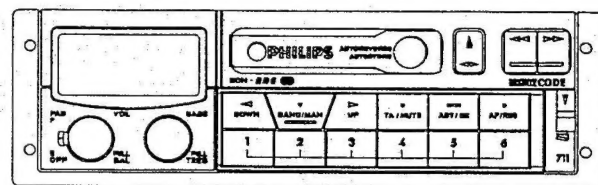


Service  
Service  
Service



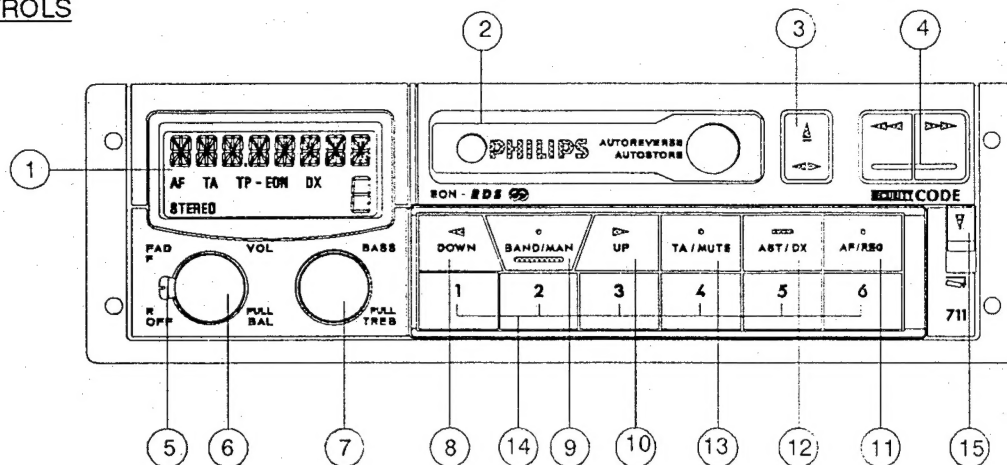
For repair information of the Cassette deck see Service Manual N° 4822.725.23368 of Auto Cassette Deck P6-25/1

# Service Manual

12 V

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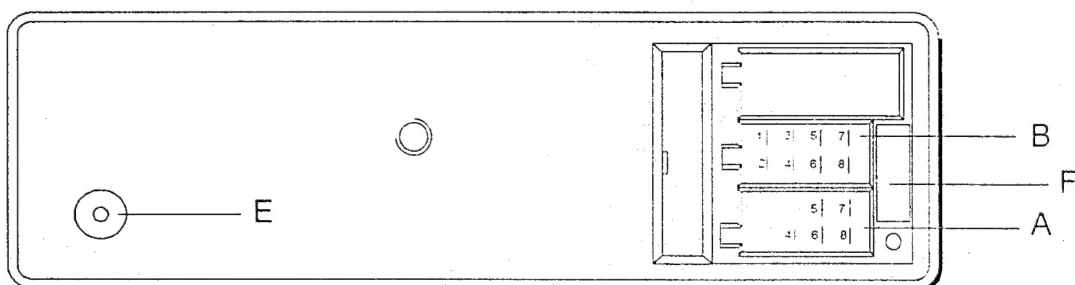
## CONTROLS



- ① Display
- ② Cassette Opening
- ③ Eject / Reverse Button
- ④ FRW / FFW Buttons
- ⑤ Fader
- ⑥ ON/OFF / Volume / Balance
- ⑦ Bass / Treble
- ⑧ Search Down

- ⑨ Wave Range / Manual Mode
- ⑩ Search Up
- ⑪ Alternative frequency / Regional
- ⑫ Autostore / Distance Mode
- ⑬ Traffic information / Audio mute
- ⑭ Preset Selection
- ⑮ Release Knob for Detachable Unit

## CONNECTIONS



### A : POWER SUPPLY

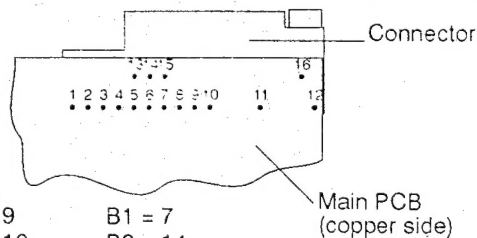
- A4 Battery Permanent Plus
- A5 Switched Battery Plus
- A6 External Illumination
- A7 Battery Plus (Main Supply)
- A8 Ground

### E : AERIAL PLUG

### F : FUSE 5A

### B : LOUDSPEAKERS

- B1 Rear right
- B2 Rear right ground
- B3 Front Right
- B4 Front Right ground
- B5 Front Left
- B6 Front Left ground
- B7 Rear left
- B8 Rear left ground



- A4 = 9
- A5 = 10
- A6 = 11
- A7 = 1
- A8 = 12
- B1 = 7
- B2 = 14
- B3 = 15
- B4 = 7
- B5 = 6
- B6 = 5
- B7 = 5
- B8 = 13

22DC711/00

## TECHNICAL DATA

### GENERAL

Power supply : 14.4V DC  
Dimensions : 180x150x51 mm

### RADIO

LW : 144-288 KHz  
MW : 531-1611 KHz  
FM : 87.5-108 MHz  
IF-AM : 10.7 MHz  
IF-FM : 10.7 MHz  
Sensitivity 26dB S/N : 40  $\mu$ V (LW)  
: 35  $\mu$ V (MW)  
: 3,5  $\mu$ V (FM)  
Limitation  $\alpha$ -3dB : 8 to 25  $\mu$ V

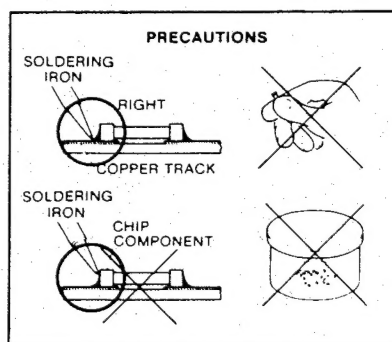
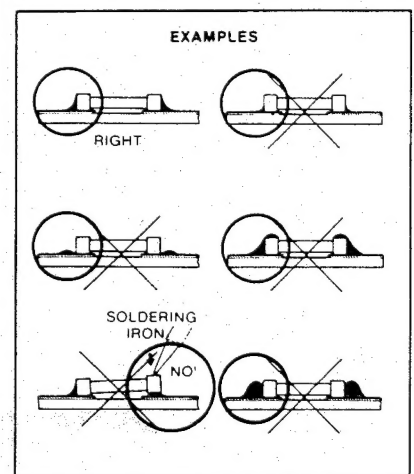
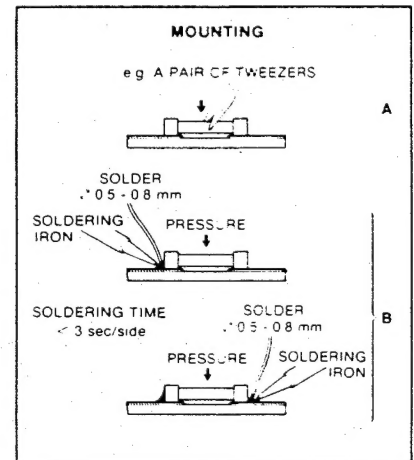
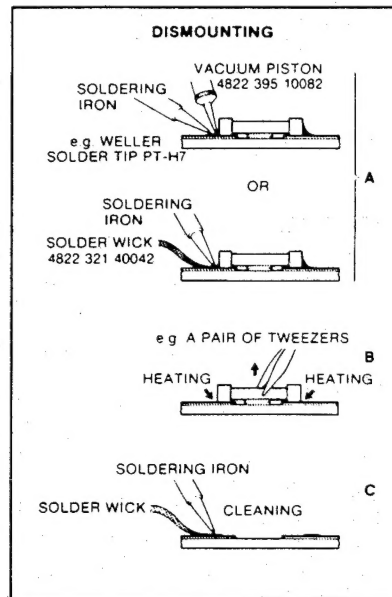
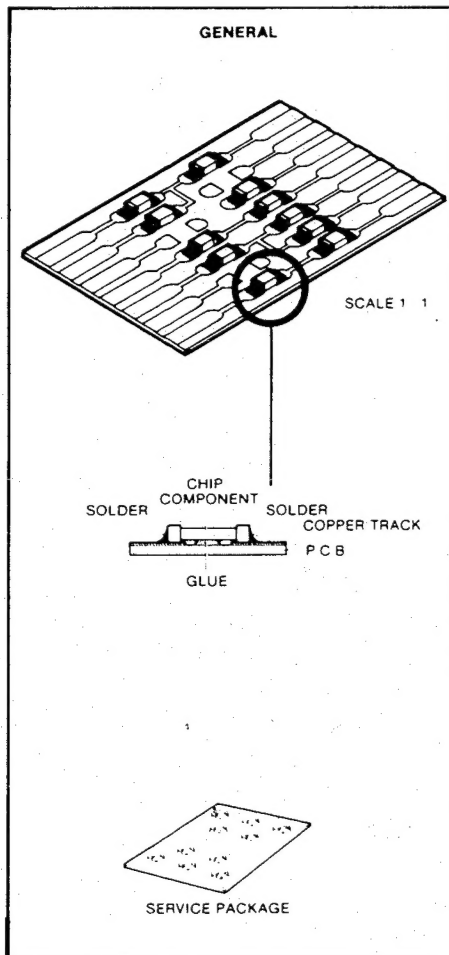
### CASSETTE

Cassette mechanism : P6-25/1  
Number of tracks : 2x2  
Tape speed : 4.76 cm/sec  
Wow and flutter :  $\leq 0.35\%$   
Crosstalk :  $\geq 30$  dB

### AMPLIFIER

Output power : 4 X 5,7W / 4 $\Omega$   
(D = 10%)  
Loudness : +10 dB at 80 Hz  
Tone control : +10 / -15 dB at 80 Hz  
: +12 / -12 dB at 10 KHz

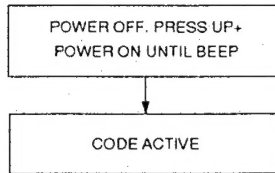
## HANDLING CHIP COMPONENTS



27 012C12

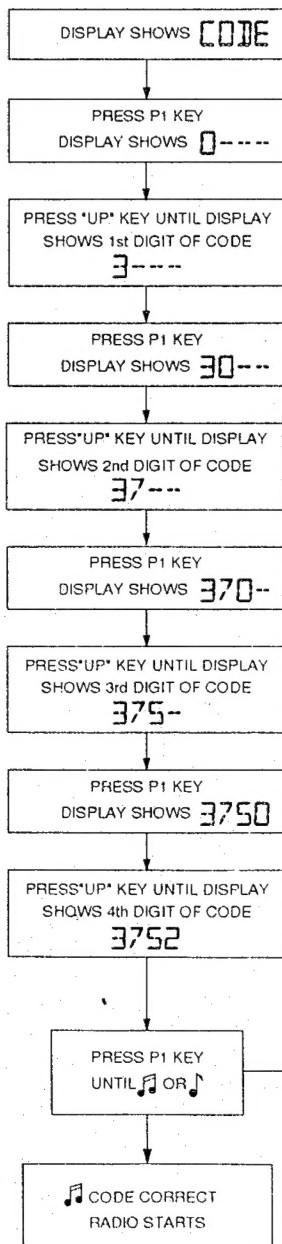
## SECURITY CODE

### ACTIVATING PROTECTION

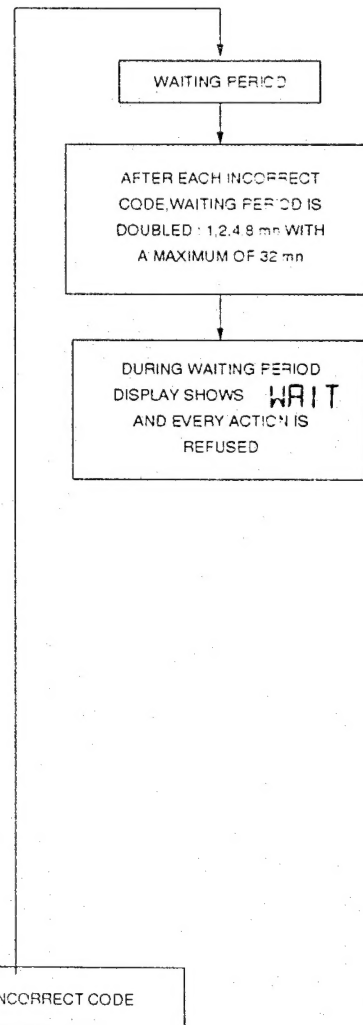
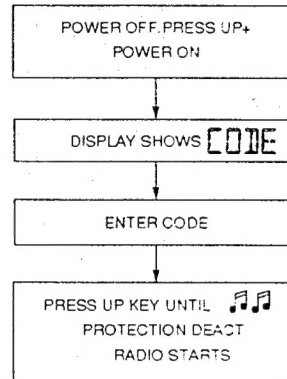


### ENTERING A CODE

Example : 3752

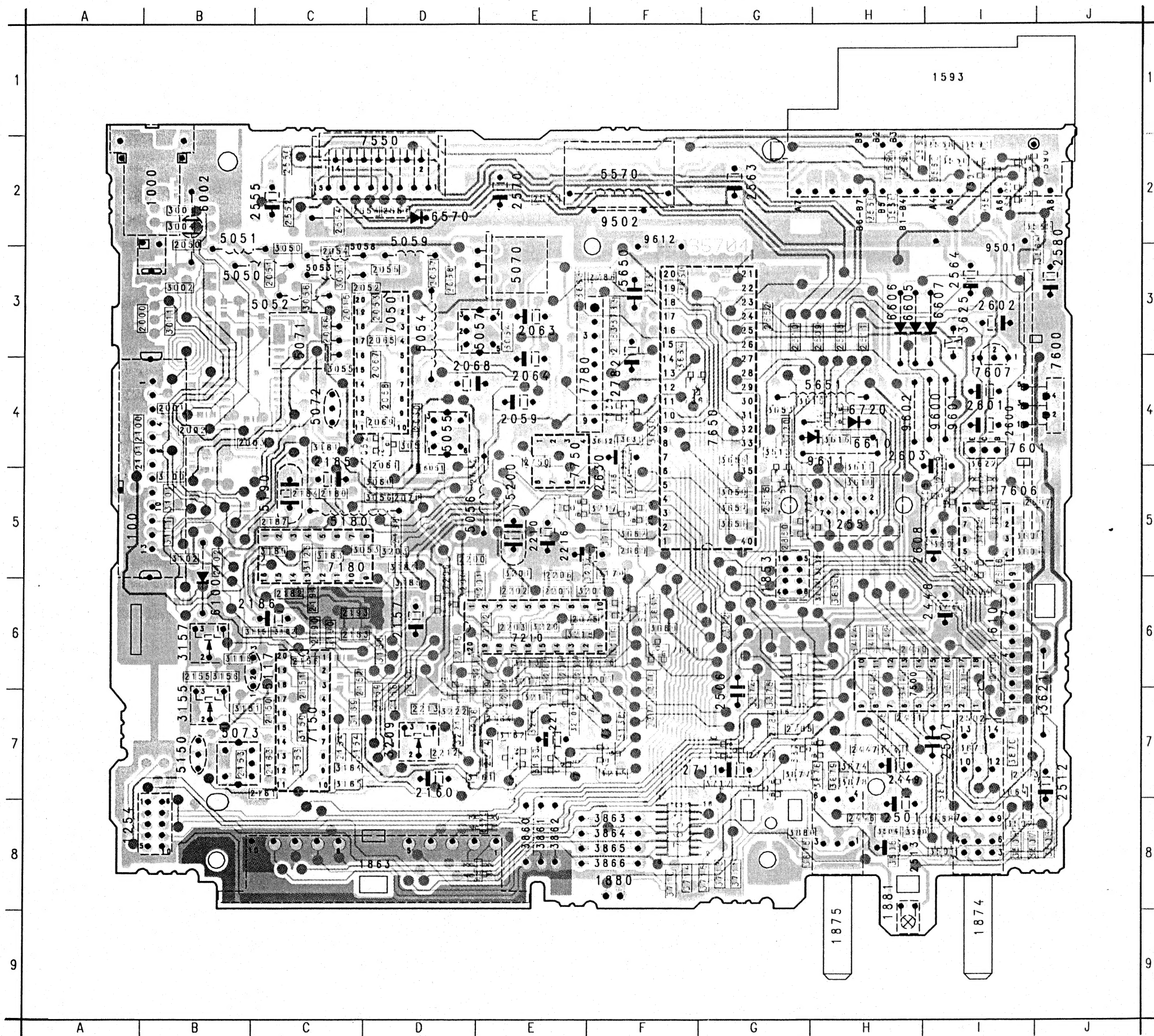


### DEACTIVATING PROTECTION

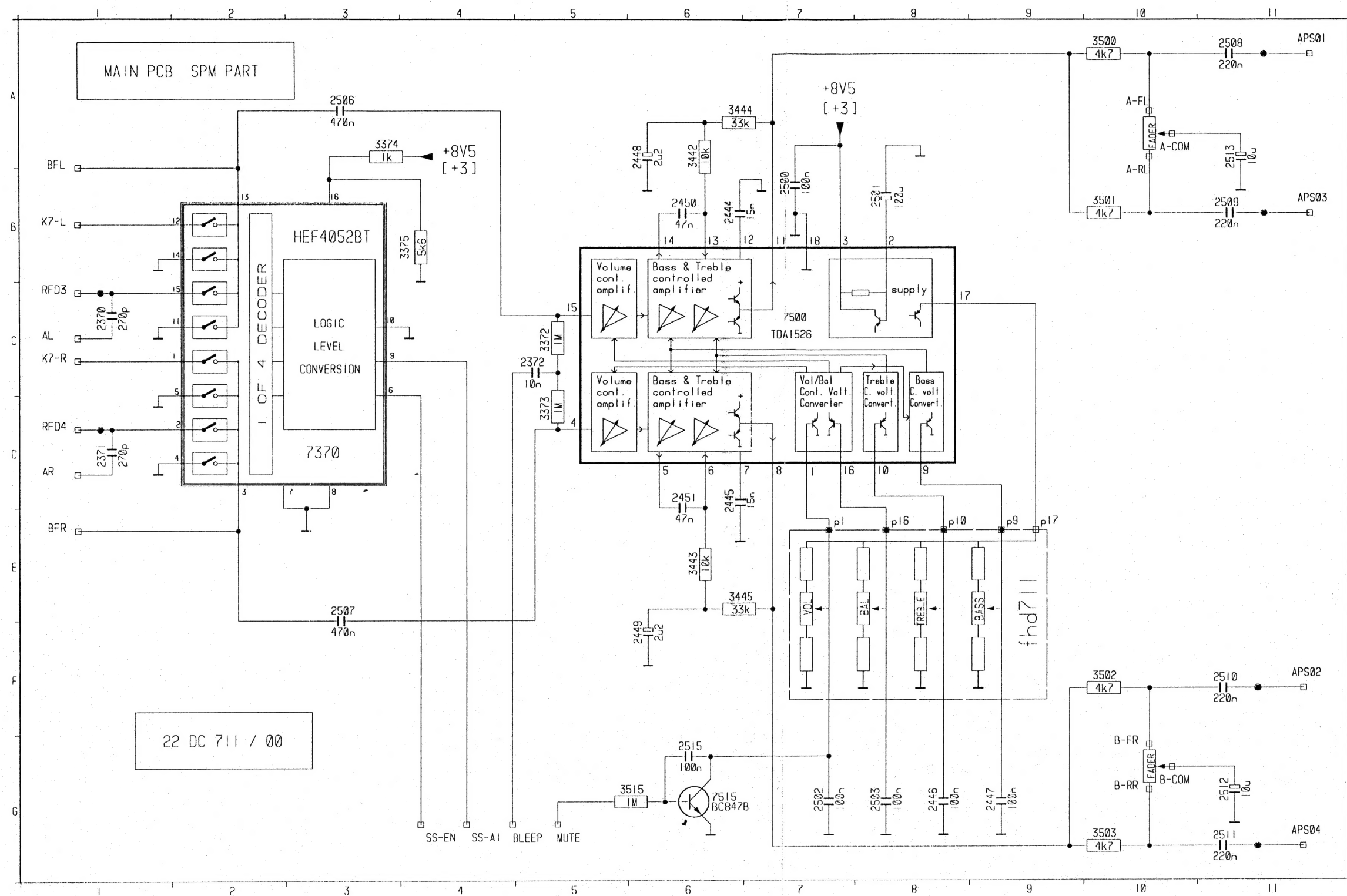




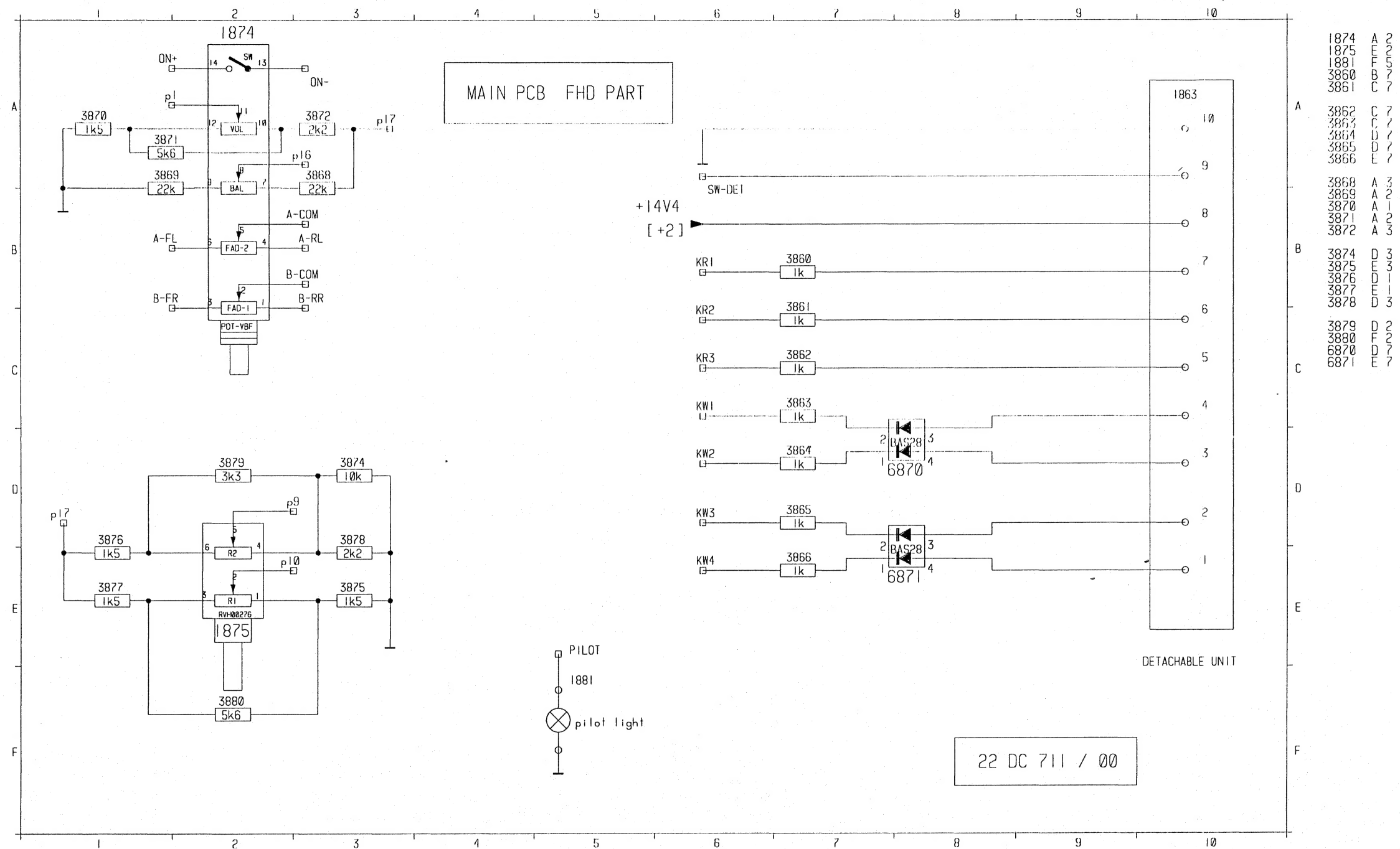
## PCB MAIN PANEL

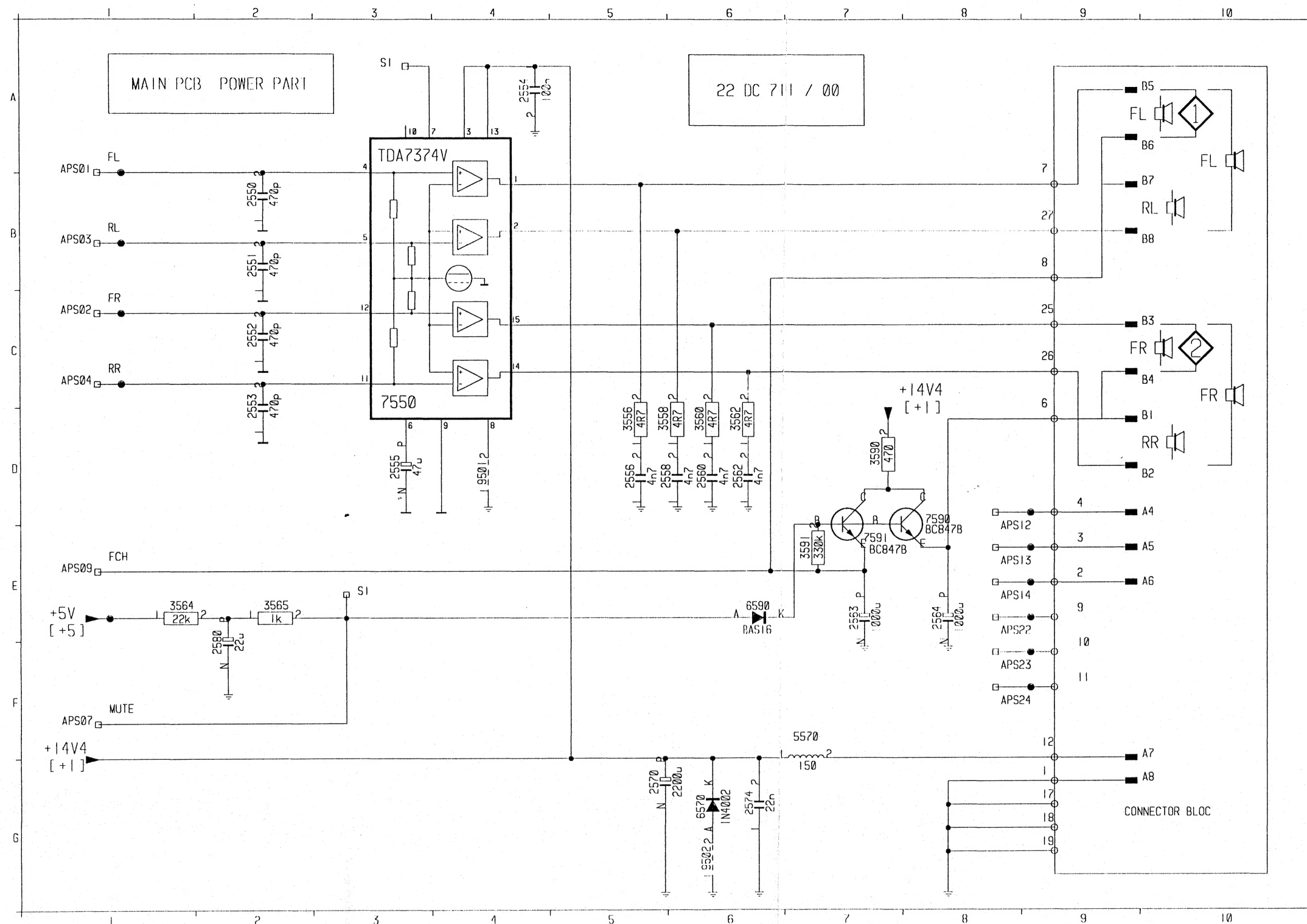


1000	2B	2451	7H	3200	6D	3862	8E	9611	4H
1100	5A	2500	6H	3201	5E	3863	8F	9612	2F
1254	8A	2501	8I	3202	6E	3864	8F		
1255	5H	2502	7I	3203	5D	3865	8F		
1593	1I	2503	7I	3204	5F	3866	8F		
1610	6I	2506	7G	3205	6F	3868	8I		
1853	5G	2507	7I	3206	6F	3869	7I		
1863	8D	2508	3H	3207	6E	3870	7I		
1874	9I	2509	3H	3208	7E	3871	7I		
1875	9H	2510	3G	3209	7D	3872	7I		
1880	8F	2511	3H	3210	7E	3874	7H		
1881	8H	2512	1J	3211	7E	3875	8G		
2000	3B	2513	8H	3212	6E	3876	7H		
2001	4B	2515	5G	3213	6E	3877	7G		
2002	4B	2550	2C	3214	5E	3878	7H		
2003	4C	2551	2D	3215	7F	3879	7H		
2015	3C	2552	2C	3216	7E	3880	8G		
2050	2B	2553	2D	3217	6E	5050	3B		
2051	3C	2554	2C	3218	6E	5051	2B		
2052	3D	2555	2C	3219	6F	5052	3C		
2053	3D	2556	2H	3220	6E	5053	3C		
2054	3C	2558	2I	3221	7D	5054	3D		
2055	3D	2560	2H	3222	7D	5055	4D		
2056	3D	2562	2I	3372	6I	5056	5D		
2057	3D	2563	2G	3373	6I	5057	3E		
2058	4D	2564	3I	3374	7G	5058	3D		
2059	4E	2570	2E	3375	7G	5059	2D		
2080	4D	2574	2E	3400	6I	5070	3E		
2081	4D	2580	3J	3440	6I	5071	3C		
2082	5E	2600	4I	3441	7H	5072	4C		
2063	3E	2601	4I	3442	6H	5073	7B		
2064	4E	2602	3I	3443	6H	5117	6C		
2065	3D	2603	4H	3444	6H	5150	7B		
2066	3C	2606	5I	3445	6H	5180	5C		
2067	4D	2607	5J	3500	8H	5190	5C		
2068	4D	2608	5I	3501	8I	5200	5E		
2069	4D	2609	5I	3502	8I	5570	2F		
2070	5D	2630	5F	3503	8J	5650	3F		
2075	6F	2650	3F	3504	8H	5651	4H		
2076	6F	2651	3F	3505	8H	6002	2B		
2100	4B	2652	3G	3506	8I	6051	5D		
2101	4B	2660	5F	3507	8J	6100	6B		
2102	5B	2710	7G	3515	4G	6150	7E		
2150	7C	2711	7G	3556	2H	6201	6F		
2151	6C	2750	4E	3558	2I	6570	2D		
2152	6C	2732	4F	3560	2H	6590	2I		
2153	7B	2783	3F	3562	2I	6600	5I		
2154	7C	2784	7G	3564	3J	6605	3H		
2155	6B	2785	7G	3565	2J	6606	3H		
2156	6C	2786	3F	3590	2I	6607	3I		
2157	6D	2850	5G	3591	2I	6610	4H		
2158	7D	3002	3B	3600	5I	6720	4H		
2159	6D	3003	2E	3601	5I	6870	8E		
2160	7D	3004	2B	3602	5I	6871	8E		
2161	7C	3011	3B	3603	5I	6874	7G		
2163	7C	3050	3C	3604	6I	6875	5F		
2164	7E	3051	3C	3605	5I	7050	3D		
2180	5C	3052	4D	3610	5H	7052	4D		
2182	6C	3053	5D	3611	5H	7150	7C		
2183	6C	3054	3E	3615	4H	7152	7E		
2184	5C	3055	4C	3616	4H	7180	5C		
2185	4C	3056	5D	3621	7J	7200	5D		
2186	6C	3058	3C	3622	4I	7202	7F		
2187	5C	3060	5D	3625	3I	7210	6E		
2188	5D	3100	5B	3630	4F	7211	7F		
2190	6C	3101	5B	3631	4F	7212	7D		
2191	6C	3102	5B	3632	4F	7370	6G		
2193	6C	3111	5B	3633	4F	7500	7H		
2200	5D	3115	6C	3650	5G	7515	5G		
2201	6E	3116	6B	3651	5G	7550	2D		
2202	6E	3125	5C	3652	5G	7590	2J		
2203	6E	3150	7C	3653	4G	7591	2I		
2204	7E	3151	7B	3654	5F	7600	3J		
2205	6E	3153	7C	3655	5F	7601	4I		
2206	5E	3154	7C	3656	4G	7604	5I		
2207	6E	3155	7B	3660	6F	7605	5I		
2208	6E	3156	6B	3661	6F	7606	5I		
2209	7E	3157	6B	3662	5F	7607	4I		
2210	5E	3158	6D	3663	3E	7611	4H		
2211	7E	3159	7D	3664	4F	7630	4F		
2212	7D	3161	7E	3710	8F	7650	4G		
2213	7D	3162	7E	3711	8G	7651	8F		
2214	7E	3163	7E	3712	7G	7660	6F		
2215	6D	3164	7C	3713	8G	7661	4G		
2216	5E	3165	7C	3714	8F	7710	7G		
2370	6F	3166	7F	3715	8G	7711	7G		
2371	7F	3169	7C	3716	5F	7712	5E		
2372	6G	3170	5F	3717	5F	7720	5H		
2444	6H	3180	5C	3720	4G	7750	4E		
2445	7H	3181	4C	3783	3F	7780	4F		
2446	8H	3182	6C	3852	5H	9501	3I		
2447	7H	3183	5C	3853	6H	9502	2F		
2448	6I	3184	5D	3854	6H	9600	4I		
2449	7H	3185	6D	3860	8E	9601	4I		
2450	6H	3190	6C	3861	8E	9602	4H		





2370	C	1
2371	D	1
2372	C	5
2444	B	7
2445	D	7
2446	G	8
2447	G	9
2448	A	6
2449	F	6
2450	B	6
2451	D	6
2500	B	8
2501	G	7
2502	G	7
2503	G	8
2506	A	3
2507	E	3
2508	A	1
2509	B	1
2510	F	1
2511	G	11
2512	G	11
2513	A	11
2514	G	6
2515	C	5
2516	C	5
3373	D	5
3374	A	4
3375	B	4
3442	A	6
3443	E	6
3444	A	7
3445	E	7
3500	A	10
3501	B	10
3502	F	10
3503	G	10
3515	G	6
7370	D	3
7500	C	7
7515	G	6










- 1593 A 9
- 2550 B 2
- 2551 B 2
- 2552 C 2
- 2553 C 2
- 2554 A 4
- 2555 D 3
- 2556 D 5
- 2558 D 5
- 2560 D 6
- 2562 D 6
- 2563 E 7
- 2564 E 8
- 2570 G 5
- 2574 G 6
- 2580 E 1
- 3556 D 5
- 3558 D 5
- 3560 D 6
- 3562 D 6
- 3564 E 1
- 3565 E 2
- 3590 D 7
- 3591 E 6
- 5570 F 6
- 6570 G 6
- 6590 E 6
- 7550 C 3
- 7590 D 7
- 7591 E 7
- 9501 D 4
- 9502 G 6

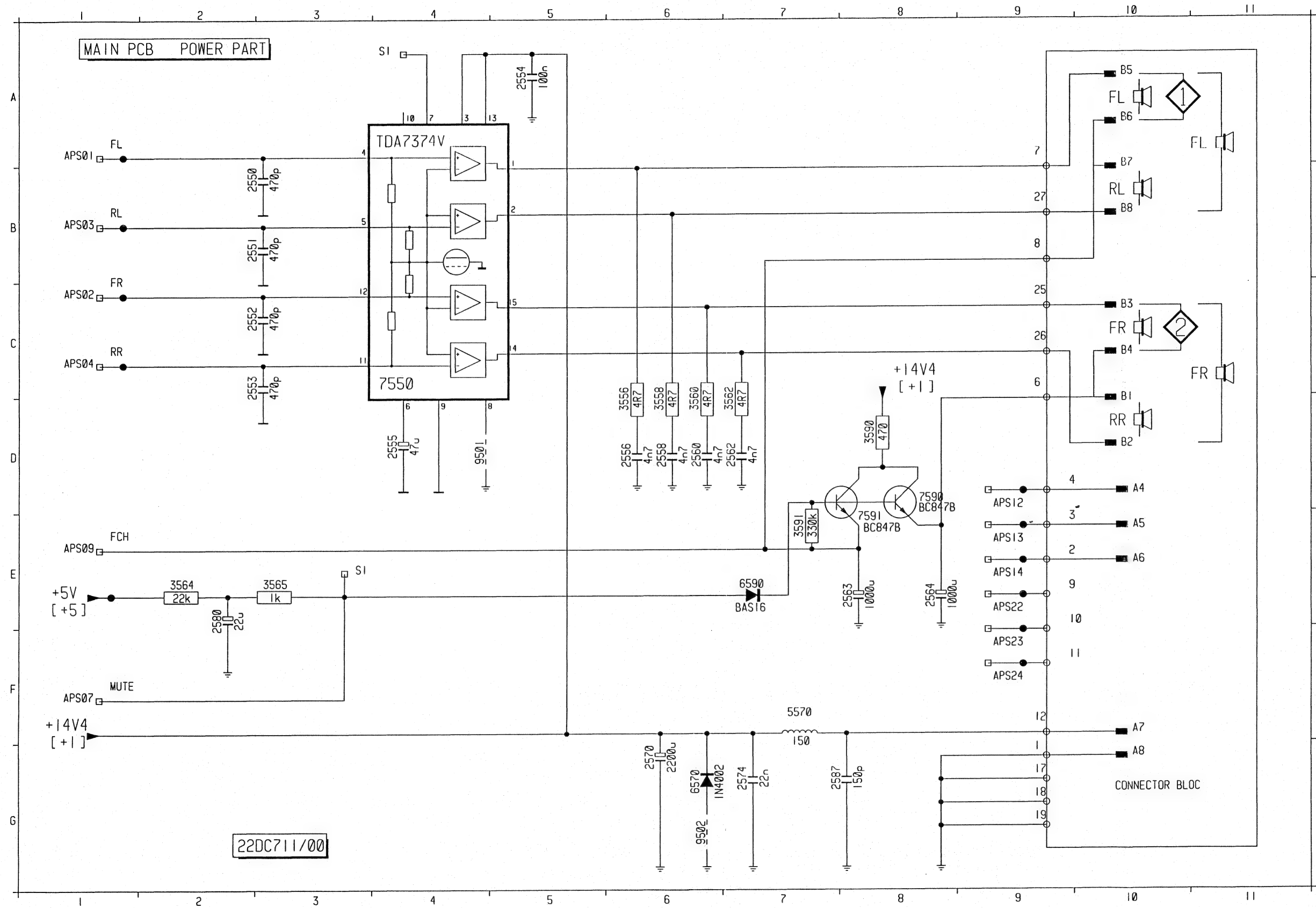


Miscellaneous					
1100	4822 210 10305	TUNER	2161	4822 122 33181	150pF 5% NP0 50V
1860	4822 276 13103	SWITCH	2163	4822 122 33514	68pF 5%NP0 50V
1861	4822 276 13103	SWITCH	2164	4822 122 33498	2,7nF10%X7R 63V
1862	4822 276 13103	SWITCH	2180	5322 122 32654	22nF 10%
1863	4822 276 13103	SWITCH	2182	4822 122 32891	68nF10%X7R 63V
1864	4822 276 13103	SWITCH	2183	4822 122 32916	220nF10%X7R 63V
1865	4822 276 13103	SWITCH	2184	5322 122 32654	22nF 10%
1866	4822 276 13103	SWITCH	2185	4822 124 23624	47UF20% 16V
1867	4822 276 13103	SWITCH	2186	4822 124 23624	47UF20% 16V
1868	4822 276 13103	SWITCH	2187	5322 122 32659	33pF 5% 50V
1869	4822 276 13103	SWITCH	2188	5322 122 32654	22nF 10%
1870	4822 276 13103	SWITCH	2190	4822 122 32542	47nF10%X7R 63V
1871	4822 276 13103	SWITCH	2191	4822 122 32597	6,8nF10%X7R 63V
1874	4822 100 30171	Pot. ON / OFF, Vol.	2193	4822 122 32916	220nF10%X7R 63V
1875	4822 100 20855	Pot. Bass / Treble	2200	4822 122 32916	220nF10%X7R 63V
			2201	5322 122 32654	22nF 10%
2000	4822 051 20008	0R00 5% 0,1W	2202	4822 122 33496	100nF10%X7R 63V
2001	4822 051 20008	0R00 5% 0,1W	2203	4822 122 31768	180pF 2%NP0 63V
2002	4822 051 20008	0R00 5% 0,1W	2204	5322 122 32268	470pF 10% 50V
2003	4822 051 20008	0R00 5% 0,1W	2205	5322 122 32268	470pF 10% 50V
2015	5322 122 34098	10nF 10%	2206	5322 122 32654	22nF 10%
2050	4822 122 32442	10nF 50V	2207	5322 122 31866	6,8nF10%X7R 63V
2051	5322 122 32287	4,7pF 5%NP0 50V	2208	5322 122 31866	6,8nF10%X7R 63V
2052	5322 122 32448	10pF 5% 50V	2209	4822 122 33496	100nF10%X7R 63V
2053	5322 122 32659	33pF 5% 50V	2210	4822 124 23624	47UF20% 16V
2054	4822 122 33514	68pF 5%NP0 50V	2211	4822 124 23432	100UF 20% 10V
2055	4822 122 33515	82pF 5%NP0 63V	2212	4822 122 31766	120pF 2%NP0 63V
2056	4822 122 33514	68pF 5%NP0 50V	2213	4822 122 32916	220nF 10% X7R 63V
2057	5322 122 34098	10nF 10%	2214	4822 122 32916	220nF10%X7R 63V
2058	4822 122 32916	220nF10%X7R 63V	2215	4822 122 33216	270pF 5%NP0 50V
2059	4822 124 23624	47UF20% 16V	2216	4822 124 41972	4,7nF 20% 35V
2060	4822 122 33216	270pF 5%NP0 50V	2250	4822 126 10333	560pF 10%
2061	5322 122 32654	22pF 10%	2251	4822 126 10333	560pF 10%
2062	4822 122 33216	270pF 5%NP0 50V	2252	4822 126 10333	560pF 10%
2063	4822 124 41969	1UF20% 50V	2253	4822 126 10333	560pF 10%
2064	4822 124 23624	47UF20% 16V	2254	4822 122 32627	2,7nF 10%
2065	4822 122 33496	100nF10%X7R 63V	2255	4822 122 32627	2,7nF 10%
2066	5322 122 32658	22pF 5% 50V	2259	4822 124 22403	10UF 20% 16V
2067	4822 122 33496	100nF10%X7R 63V	2265	4822 124 23432	100UF20% 10V
2068	4822 124 23624	47UF20% 16V	2266	5322 122 32654	22nF 10%
2069	5322 122 34098	10nF 10%	2268	4822 124 23432	100UF20% 10V
2070	5322 122 32654	22nF 10%	2269	4822 124 23432	100UF20% 10V
2075	4822 122 33496	100nF10%X7R 63V	2370	4822 122 33216	270pF 5% FROM W240
2076	4822 122 33496	100nF10%X7R 63V	2371	4822 122 33216	270pF 5% FROM W240
2100	5322 122 32654	22nF 10%	2372	5322 122 34098	10nF 10%
2101	5322 122 34098	10nF 10%	2444	4822 122 33128	15nF10% X7R 63V
2102	5322 122 34098	10nF 10%	2445	4822 122 33128	15nF10% X7R 63V
2150	4822 122 33496	100nF10%X7R 63V	2446	4822 122 33496	100nF10%X7R 63V
2151	4822 122 32542	47nF10%X7R 63V	2447	4822 122 33496	100nF10%X7R 63V
2152	4822 122 32542	47nF10%X7R 63V	2448	4822 124 40244	2,2UF 20%
2153	4822 122 33515	82pF 5%NP0 63V	2449	4822 124 40244	2,2UF 20%
2154	5322 122 32654	22nF 10%	2450	4822 122 32542	47nF 10% FROM W240
2155	4822 122 33496	100nF10%X7R 63V	2451	4822 122 32542	47nF 10% FROM W240
2156	4822 122 32542	47nF10%X7R 63V	2500	4822 122 33496	100nF10%X7R 63V
2157	4822 124 23624	47UF20% 16V	2501	4822 124 23432	100UF20% 10V
2158	5322 126 10223	4,7nF 10% X7R 63V	2502	4822 122 33496	100nF10%X7R 63V
2159	5322 126 10223	4,7nF 10% X7R 63V	2503	4822 122 33496	100nF10%X7R 63V
2160	4822 124 40244	2,2UF20% 63V	2506	4822 121 51252	470nF 5% 63V
			2507	4822 121 51252	470nF 5% 63V

					
2508	4822 122 32916	220nF10% X7R 63V	3002	4822 051 20008	0R00 5% 0,1W
2509	4822 122 32916	220nF10% X7R 63V	3003	4822 051 20008	0R00 5% 0,1W
2510	4822 122 32916	220nF10% X7R 63V	3004	4822 051 20008	0R00 5% 0,1W
2511	4822 122 32916	220nF10% X7R 63V	3011	4822 051 20008	0R00 5% 0,1W
2512	4822 124 22403	10UF 20% 16V	3050	4822 051 20561	560R00 5% 0,1W
2513	4822 124 22403	10UF 20% 16V	3051	4822 051 20471	470R00 5% 0,1W
2515	4822 122 33496	100nF10% X7R 63V	3052	4822 051 20184	180K 5% 0,1W
2550	5322 122 32268	470pF 10% 50V	3053	4822 051 20472	4K7 5% 0,1W
2551	5322 122 32268	470pF 10% 50V	3054	4822 051 20102	1K 5% 0,1W
2552	5322 122 32268	470pF 10% 50V	3055	4822 051 20102	1K 5% 0,1W
2553	5322 122 32268	470pF 10% 50V	3056	4822 051 20273	27K 5% 0,1W
2554	4822 122 33496	100nF10% X7R 63V	3058	4822 051 20474	470K 5% 0,1W
2555	4822 124 23624	47UF20% 16V	3060	4822 051 20103	10K 5% 0,1W
2556	5322 126 10223	4,7nF10% X7R 63V	3100	4822 051 20103	10K 5% 0,1W
2558	5322 126 10223	4,7nF10% X7R 63V	3101	4822 051 20109	10R 5% 0,1W
2560	5322 126 10223	4,7nF10% X7R 63V	3102	4822 051 20471	470R 5% 0,1W
2562	5322 126 10223	4,7nF10% X7R 63V	3111	4822 051 20569	56R 5% 0,1W
2563	4822 124 40201	1000UF20% 16V	3115	4822 051 20569	56R 5% 0,1W
2564	4822 124 40201	1000UF20% 16V	3116	4822 051 20102	1K 5% 0,1W
2570	4822 124 40723	2200UF20% 16V	3125	4822 051 20102	1K 5% 0,1W
2574	5322 122 32654	22nF 10%	3150	4822 051 20331	330R 5% 0,1W
2575	4822 122 32142	270pF 2% NP0 63V	3151	4822 051 20331	330R 5% 0,1W
2576	4822 122 32142	270pF 2% NP0 63V	3153	4822 051 20222	2K2 5% 0,1W
2580	4822 124 41796	22UF20% 16V	3154	4822 051 20109	10R 5% 0,1W
2600	4822 124 22403	10UF 20% 16V	3155	4822 100 20166	10K 30%LIN 0,1W
2601	4822 124 23432	100UF 20% 16V	3156	4822 051 20222	2K2 5% 0,1W
2602	4822 124 23432	100UF20% 10V	3157	4822 100 20166	10K 30%LIN 0,1W
2603	4822 124 23624	47UF20% 16V	3158	4822 051 20109	10R 5% 0,1W
2606	4822 122 33496	100nF10% X7R 63V	3159	4822 051 20681	680R 5% 0,1W
2607	4822 122 33498	2,7nF10% X7R 63V	3161	4822 051 20683	68K 5% 0,1W
2608	4822 124 40244	2,2UF20% 63V	3162	4822 051 20222	2,2K 5% 0,1W
2609	4822 122 33496	100nF 10% FROM W240	3163	4822 051 20271	270R 5% 0,1W
2630	4822 124 41796	22UF20% 16V	3164	4822 051 20102	1K 5% 0,1W
2650	5322 122 32659	33pF 5% 50V	3165	4822 051 20102	1K 5% 0,1W
2651	5322 122 32659	33pF 5% 50V	3166	4822 051 20008	0R 5% 0,1W
2652	4822 122 33496	100nF10% X7R 63V	3169	4822 051 20331	330R 5% 0,1W
2660	5322 122 32654	22nF 10%	3170	4822 051 20008	0R00 5% 0,1W
2700	4822 122 33515	82pF 5% NPO 63V	3180	4822 051 20103	10K 5% 0,1W
2701	4822 122 33496	100nF10% X7R 63V	3181	4822 051 20103	10K 5% 0,1W
2702	4822 124 40244	2,2UF20% 63V	3182	4822 051 20331	330R 5% 0,1W
2703	4822 126 10333	560pF 10% X7R63V	3183	4822 051 20475	4M7 5% 0,1W
2704	5322 122 32452	47pF 5% NPO 63V	3184	4822 051 20102	1K 5% 0,1W
2705	4822 122 33515	82pF 5% NPO 63V	3185	4822 051 20102	1K 5% 0,1W
2710	5322 122 32654	22nF 10%	3190	4822 051 20332	3K3 5% 0,1W
2711	4822 124 41969	1UF20% 50V	3200	4822 051 20273	27K 5% 0,1W
2750	4822 122 33496	100nF10% X7R 63V	3201	4822 051 20104	100K 5% 0,1W
2752	4822 122 33496	100nF10% X7R 63V	3202	4822 051 20222	2K2 5% 0,1W
2753	4822 122 33496	100nF10% X7R 63V	3203	4822 051 20474	470K 5% 0,1W
2759	4822 122 33496	100nF10% X7R 63V	3204	4822 051 20105	1M 5% 0,1W
2760	4822 122 33496	100nF10% X7R 63V	3205	4822 051 20393	39K 5% 0,1W
2765	5322 122 32659	33pF 5% 50V	3206	4822 051 20393	39K 5% 0,1W
2766	5322 122 32659	33pF 5% 50V	3207	4822 051 20474	470K 5% 0,1W
2782	4822 124 40244	2,2UF 20% 63V	3208	4822 051 20273	27K 5% 0,1W
2783	4822 122 32542	47nF10% X7R 63V	3209	4822 100 11163	100K 30%LIN 0,1W
2784	5322 122 31647	1nF10% X7R 63V	3210	4822 051 20471	470R 5% 0,1W
2785	5322 122 31647	1nF10% X7R 63V	3211	4822 051 20104	100K 5% 0,1W
2786	5322 122 32654	22nF 10%	3212	4822 051 20103	10K 5% 0,1W
2850	4822 122 33496	100nF10% X7R 63V	3213	4822 051 20681	680R 5% 0,1W
			3214	4822 051 20109	10R 5% 0,1W

					
3215	4822 051 20475	4M7 5% 0,1W	3661	4822 051 20475	4M7 5% 0,1W
3216	4822 051 20472	4K7 5% 0,1W	3662	4822 051 20334	330K 5% 0,1W
3217	4822 051 20103	10K 5% 0,1W	3663	4822 051 20103	10K 5% 0,1W
3218	4822 051 20472	4K7 5% 0,1W	3664	4822 051 20103	10K 5% 0,1W
3219	4822 051 20472	4K7 5% 0,1W	3700	4822 051 20222	2K2 5% 0,1W
3220	4822 051 20104	100K 5% 0,1W	3710	4822 051 20271	270R 5% FROM W240
3221	4822 051 20683	68K 5% 0,1W	3711	4822 051 20105	1M 5% 0,1W
3222	4822 051 20273	27K 5% 0,1W	3712	4822 051 20105	1M 5% 0,1W
3252	4822 051 20151	150R 5% 0,1W	3713	4822 051 20473	47K 5% FROM W240
3253	4822 051 20151	150R 5% 0,1W	3714	4822 051 20473	47K 5% FROM W240
3254	4822 051 20105	1M 5% 0,1W	3715	4822 051 20105	1M 5% 0,1W
3255	4822 051 20105	1M 5% 0,1W	3716	4822 051 20104	100K 5% 0,1W
3258	4822 051 20563	56K 5% 0,1W	3717	4822 051 20104	100K 5% 0,1W
3259	4822 051 20563	56K 5% 0,1W	3783	4822 051 20334	330K 5% 0,1W
3262	4822 051 20473	47K 5% 0,1W	3852	4822 051 20102	1K 5% 0,1W
3372	4822 051 20105	1M 5% 0,1W	3853	4822 051 20221	220R 5% 0,1W
3373	4822 051 20105	1M 5% 0,1W	3854	4822 051 20184	180K 5% 0,1W
3374	4822 051 20102	1K 5% 0,1W	3860	4822 050 11002	1K 1% 0,4W
3375	4822 051 20562	5K6 5% 0,1W	3861	4822 050 11002	1K 1% 0,4W
3442	4822 051 20103	10K 5% 0,1W	3862	4822 050 11002	1K 1% 0,4W
3443	4822 051 20103	10K 5% 0,1W	3863	4822 050 11002	1K 1% 0,4W
3444	4822 051 20333	33K 5% 0,1W	3864	4822 050 11002	1K 1% 0,4W
3445	4822 051 20333	33K 5% 0,1W	3865	4822 050 11002	1K 1% 0,4W
3500	4822 051 20472	4K7 5% 0,1W	3866	4822 050 11002	1K 1% 0,4W
3501	4822 051 20472	4K7 5% 0,1W	3868	4822 051 20223	22K 5% FROM W240
3502	4822 051 20472	4K7 5% 0,1W	3869	4822 051 20223	22K 5% FROM W240
3503	4822 051 20472	4K7 5% 0,1W	3870	4822 051 20152	1K5 5% 0,1W
3515	4822 051 20105	1M 5% 0,1W	3871	4822 051 20562	5K6 5% 0,1W
3556	4822 051 20478	4R7 5% 0,1W	3872	4822 051 20222	2K2 5% 0,1W
3558	4822 051 20478	4R7 5% 0,1W	3874	4822 051 20103	10K 5% FROM W240
3560	4822 051 20478	4R7 5% 0,1W	3875	4822 051 20152	1K5 5% 0,1W
3562	4822 051 20478	4R7 5% 0,1W	3876	4822 051 20152	1K5 5% 0,1W
3564	4822 051 20223	22K 5% 0,1W	3877	4822 051 20152	1K5 5% 0,1W
3565	4822 051 20102	1K 5% 0,1W	3878	4822 051 20222	2K2 5% FROM W240
3590	4822 051 20471	470R 5% 0,1W	3879	4822 051 20332	3K3 5% 0,1W
3591	4822 051 20334	330K 5% 0,1W	3880	4822 051 20562	5K6 5% 0,1W
3600	4822 051 20184	180K 5% 0,1W	3880	4822 116 52215	220E 5% 0,5W
3601	4822 051 20273	27K 5% FROM W240	3881	4822 116 52215	220E 5% 0,5W
3602	4822 051 20102	1K 5% 0,1W	3882	4822 116 52215	220E 5% 0,5W
3603	4822 051 20103	10K 5% 0,1W	4250	4822 051 20478	4R7 5% 0,1W
3604	4822 051 20473	47K 5% 0,1W	4251	4822 051 20478	4R7 5% 0,1W
3605	4822 051 20109	10R 5% 0,1W			
3610	4822 051 20562	5K6 5% 0,1W	5050	4822 152 20677	10MUH 10%
3611	4822 051 20102	1K 5% 0,1W	5051	4822 152 20677	10MUH 10%
3615	4822 051 20103	10K 5% 0,1W	5052	4822 157 60122	4,7MUH 10%
3616	4822 051 20184	180K 5% 0,1W	5053	4822 152 20677	10MUH 10%
3621	4822 053 11331	330R 5% FROM W240	5054	4822 157 50975	1 MH 10%
3622	4822 051 20102	1K 5% FROM W240	5055	4822 152 20682	6,15MUH
3625	4822 116 40216	4R7	5056	4822 152 20678	33UH 10%
3631	4822 051 20473	47K 5% 0,1W	5057	4822 152 20683	28MUH
3632	4822 051 20473	47K 5% 0,1W	5058	4822 157 52983	22MUH
3633	4822 051 20104	100K 5% 0,1W	5059	4822 157 52983	22MUH
3650	4822 051 20473	47K 5% 0,1W	5070	4822 242 72076	10,7MHz
3651	4822 051 20473	47K 5% 0,1W	5071	4822 242 72076	10,7MHz
3652	4822 051 20473	47K 5% 0,1W	5072	4822 242 71883	SFE10,7MHz
3654	4822 051 20103	10K 5% 0,1W	5073	4822 242 71883	SFE10,7MHz
3655	4822 051 20103	10K 5% 0,1W	5117	4822 242 80368	SFE10,7MHz
3656	4822 051 20473	47K 5% 0,1W	5150	4822 156 11081	1,47UH
3660	4822 051 20103	10K 5% 0,1W	5180	4822 157 50975	1 mH

					
5190	4822 242 71874	Resonator. X TL 4 MHz	7605	5322 130 41983	BC858B
5200	4822 242 81117	Resonator. 18KHz	7606	4822 209 31373	L4949
5570	4822 152 20681	Filter assy	7607	5322 209 60749	LM2931Z-5.0
5650	4822 242 81118	Resonator. 11,5 MHz	7611	5322 130 41983	BC858B
5651	4822 157 53338	1000MUH	7630	4822 130 60511	BC847B
5700	4822 242 80259	LN-G8-311(TPR11)	7650	4822 209 31371	UP PCF83C528 OTP MAI
5762	4822 242 81118	CSA11,5MTS1	7651	5322 209 11306	HEF4094BT
6002	4822 252 60125	DSP201	7660	4822 130 60511	BC847B
6051	4822 130 82596	BB419	7661	4822 130 60511	BC847B
6100	4822 130 30621	1N4148	7710	4822 130 60511	BC847B
6150	5322 130 31928	BAS16	7711	4822 130 60511	BC847B
6201	5322 130 31928	BAS16	7712	5322 130 41983	BC858B
6570	5322 130 30684	1N4002	7750	4822 900 10322	SEC CODE MEM X24C16P
6590	5322 130 31928	BAS16	7751	4822 209 31982	P83CE654FFB/501
6600	5322 130 80214	BAS28	7752	5322 209 60424	PC74HC573T
6605	4822 130 30621	1N4148	7753	4822 209 31163	FCF61C65LL-85T
6606	4822 130 30621	1N4148	7754	4822 209 31981	SAA6579T
6607	5322 130 30684	1N4002	7780	4822 209 83159	LA2000
6610	4822 130 34174	BZX79-C4V7			
6870	5322 130 80214	BAS28			
6871	5322 130 80214	BAS28			
6874	5322 130 31928	BAS16			
6875	5322 130 31928	BAS16			
6880	4822 130 82989	TLHO2400			
6881	4822 130 82989	TLHO2400			
6882	4822 130 82989	TLHO2400			
6883	4822 130 82989	TLHO2400			
6884	4822 130 82989	TLHO2400			
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6887	4822 130 82989	TLHO2400			
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6889	4822 130 82989	TLHO2400			
6890	4822 130 82989	TLHO2400			
6891	4822 130 82989	TLHO2400			
7050	4822 209 72247	TEA6200/V2			
7052	5322 130 41983	BC858B			
7150	4822 209 73507	TEA6100/N3			
7152	4822 130 60511	BC847B			
7180	4822 209 30858	TSA6057/C1			
7200	4822 130 60511	BC847B			
7202	5322 130 41983	BC858B			
7210	4822 209 30859	TDA1591/V3			
7211	4822 130 63087	BF545A			
7212	4822 130 60511	BC847B			
7250	4822 209 63939	TA7705F			
7370	5322 209 11102	HEF4052BT			
7500	4822 209 31193	TDA1526			
7515	4822 130 60511	BC847B			
7550	4822 209 31132	TDA7374V			
7590	4822 130 60511	BC847B			
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7600	4822 209 63938	L4918			
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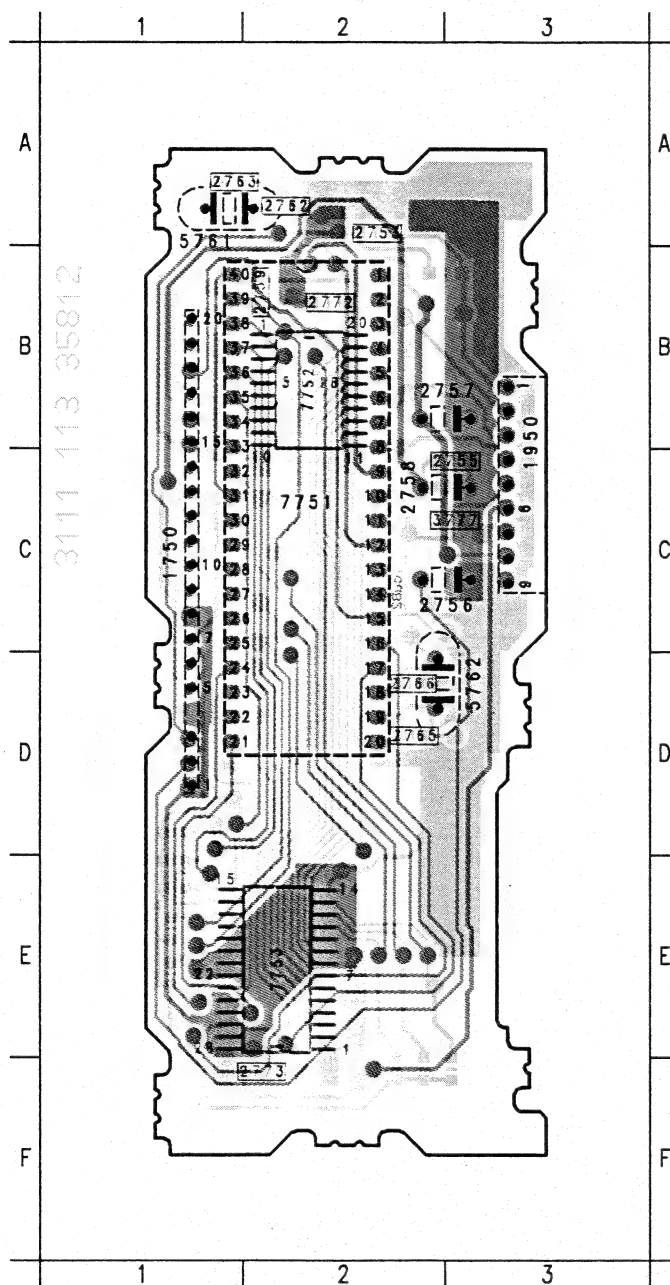


1593	A 9
2550	B 2
2551	B 2
2552	C 2
2553	C 2
2554	A 5
2555	D 3
2556	D 5
2558	D 6
2560	D 6
2562	D 6
2563	E 7
2564	E 8
2570	G 6
2574	G 6
2580	E 2
2587	G 7
3556	D 5
3558	D 6
3560	D 6
3562	D 6
3564	E 2
3565	E 2
3590	D 7
3591	E 7
5570	F 7
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6590	E 6
7550	C 3
7590	D 8
7591	E 7
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9502	G 6





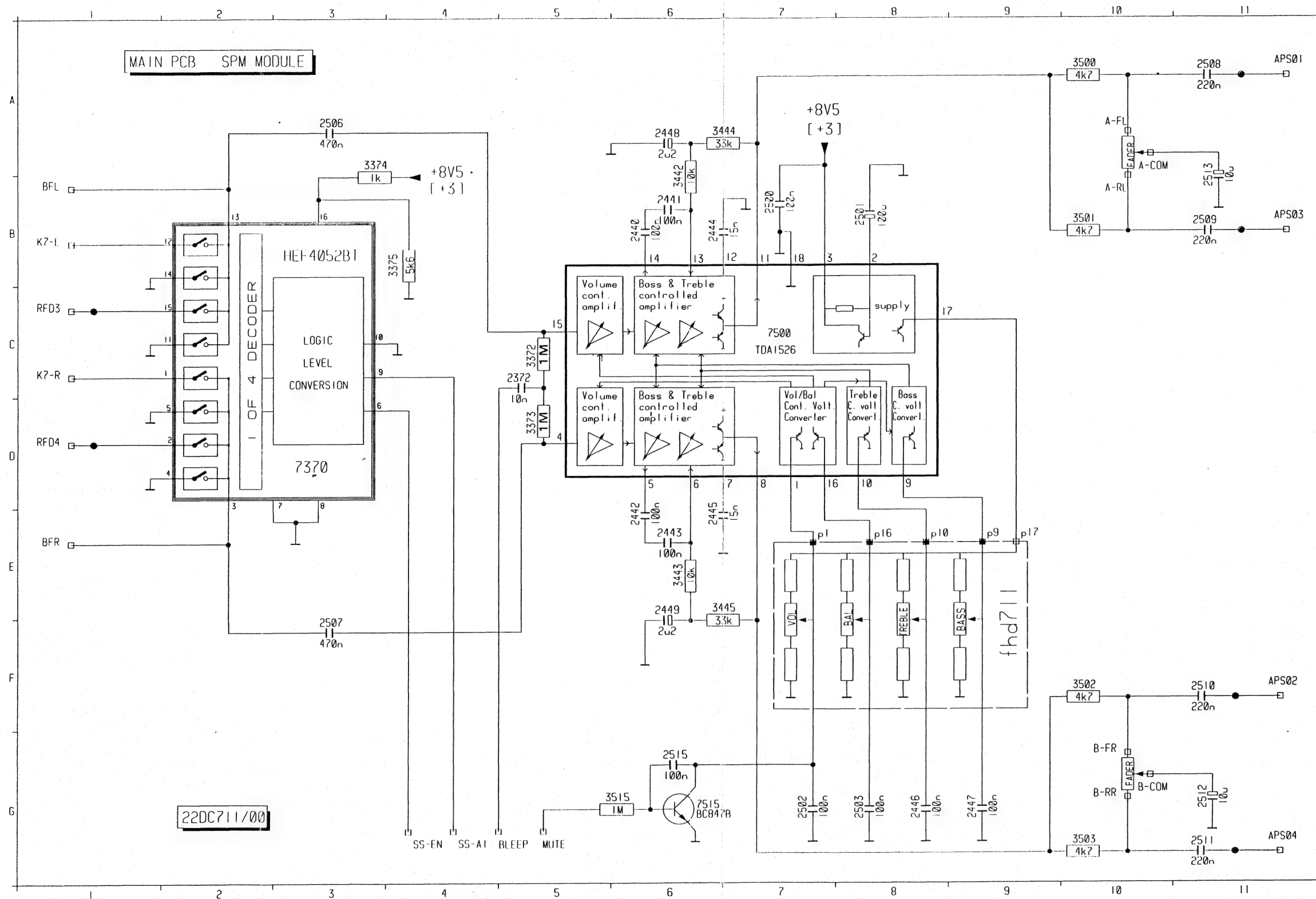
# RDS MODULE



1750	1C
1950	3B
2753	2A
2755	3C
2756	3C
2757	3B
2758	2C
2759	2B
2762	2A
2763	1A
2765	2D
2766	2D
2772	2B
2773	2F
3777	3C
5761	1A
5762	3D
7751	2C
7752	2B
7753	2E

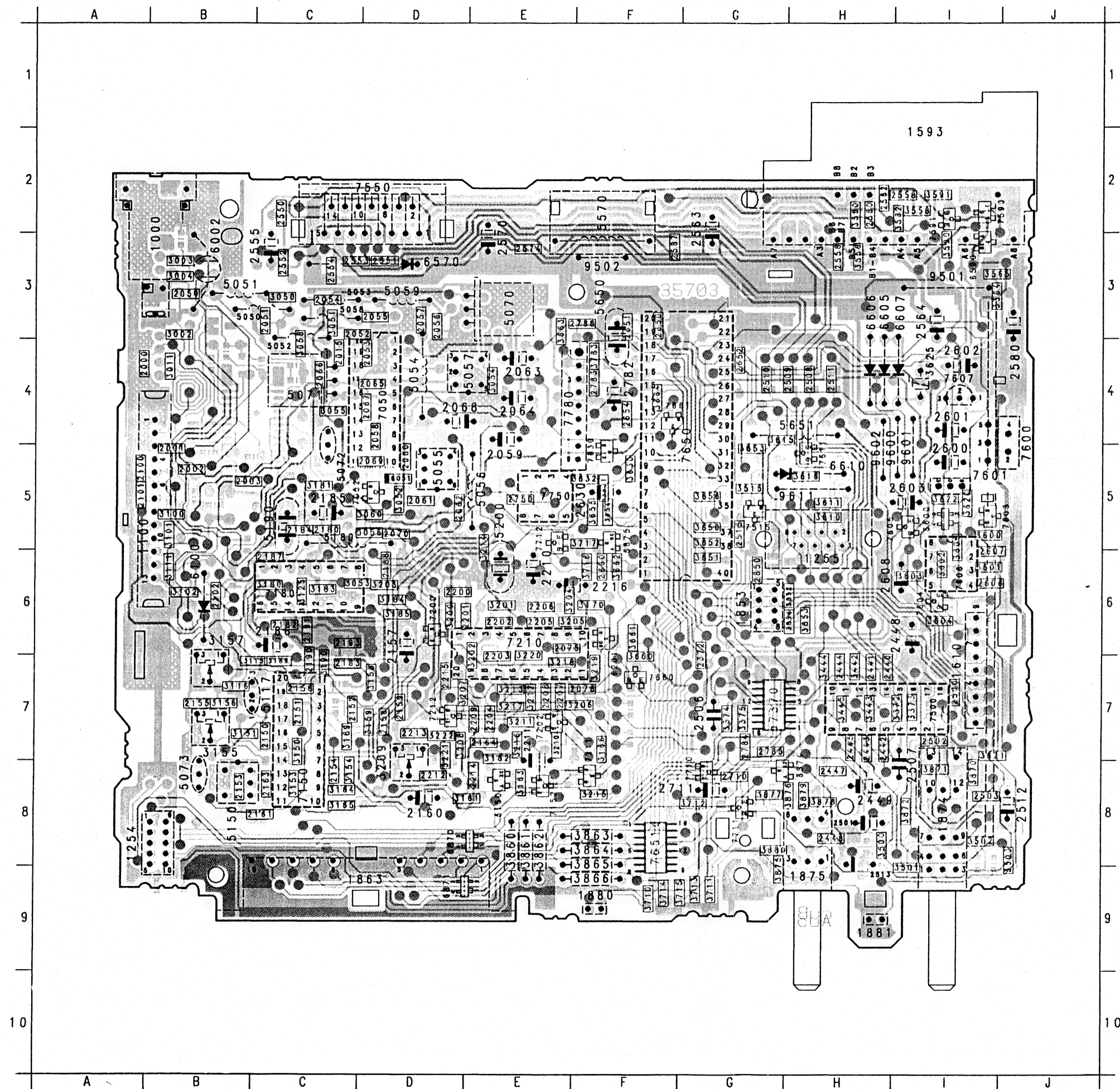






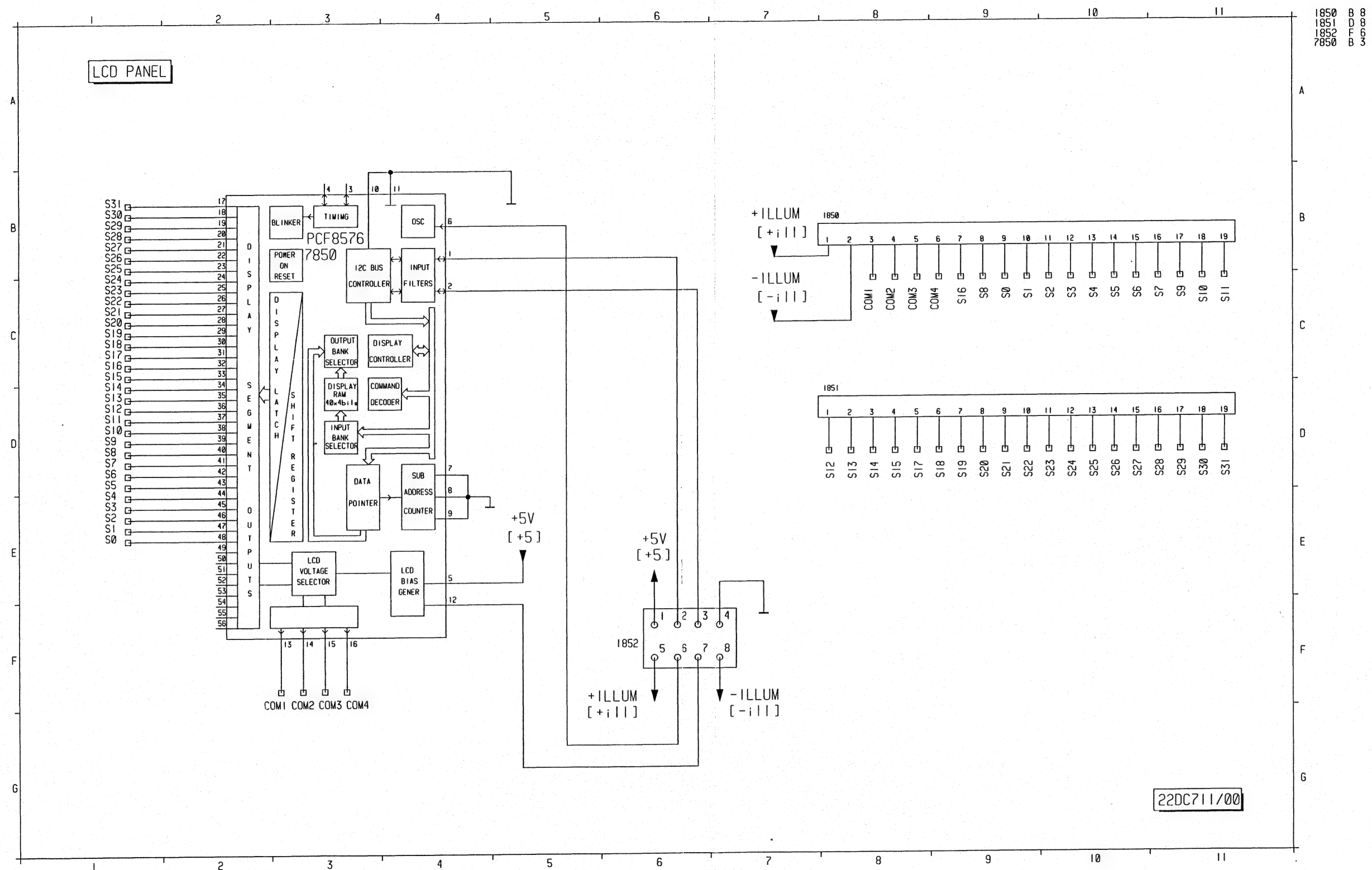
2372	C 5
2440	B 6
2441	B 6
2442	F 6
2443	F 6
2444	B 6
2445	F 6
2446	G 8
2447	G 8
2448	A 6
2449	F 6
2500	B 8
2501	B 8
2502	G 8
2503	G 8
2506	A 3
2507	F 3
2508	A 11
2509	B 11
2510	F 11
2511	G 11
2512	G 11
2513	A 11
2514	G 6
2515	G 6
2516	C 5
3373	D 5
3374	A 3
3375	B 4
3442	A 6
3443	E 6
3444	A 7
3445	E 7
3500	A 10
3501	B 10
3502	F 10
3503	G 10
3515	G 6
7370	D 3
7515	C 7
7516	G 6

## MAIN PANEL

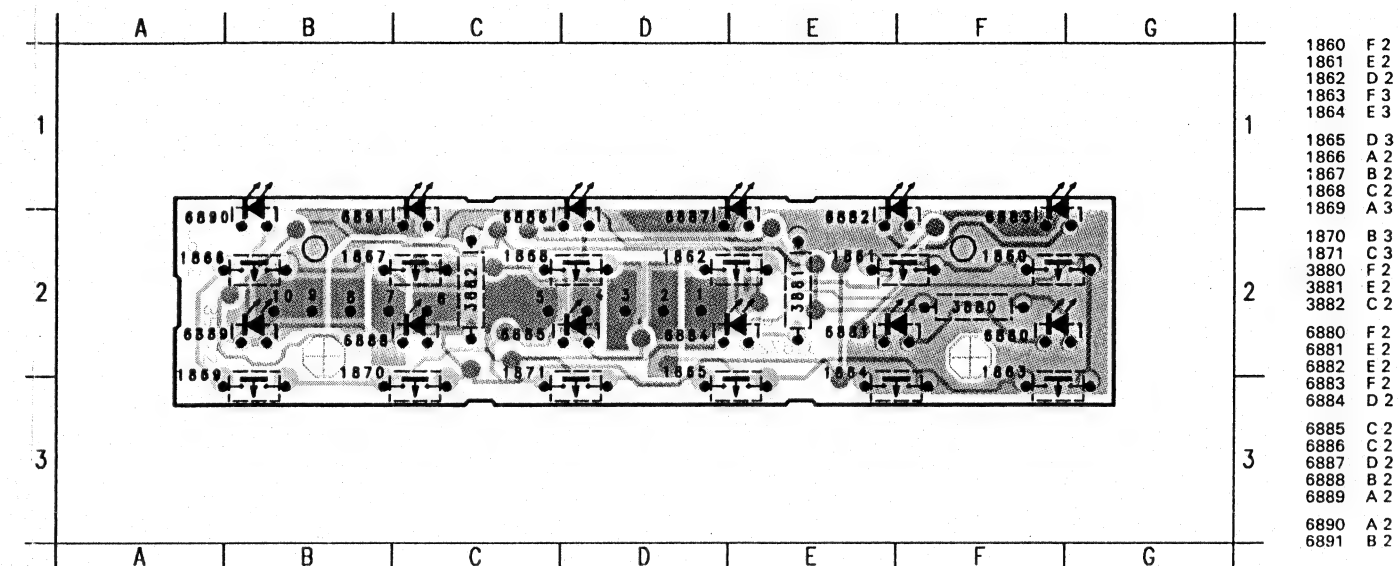
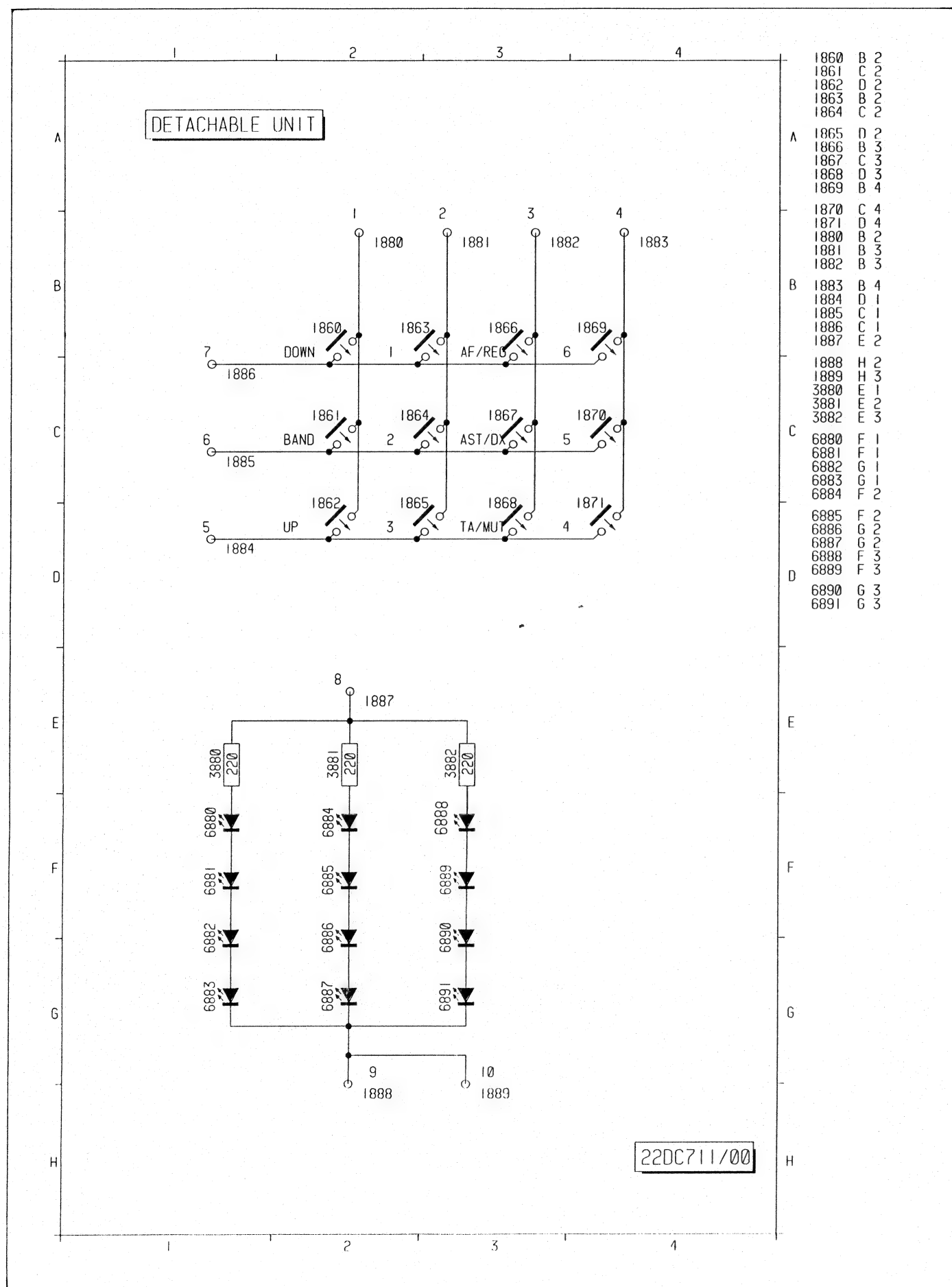


1000	3B	2449	8H	3190	7C	3872	8I
1100	5B	2500	7I	3200	6D	3875	9G
1254	8A	2501	8H	3201	6E	3876	8H
1255	6H	2502	7I	3202	6E	3877	8G
1593	2I	2503	8I	3203	6D	3878	8H
1610	7I	2506	7G	3204	6F	3879	8H
1853	6G	2507	8I	3205	6F	3880	8G
1863	9D	2508	4H	3206	7F	5050	3B
1874	8I	2509	4H	3207	7E	5051	3B
1875	9H	2510	4G	3208	7E	5052	4C
1880	9F	2511	4H	3209	8D	5053	3D
1881	9H	2512	8J	3210	7E	5054	4D
2000	4B	2513	9H	3211	7E	5055	5D
2001	4B	2515	5G	3212	7E	5056	5E
2002	5B	2550	2C	3213	7E	5057	4E
2003	5C	2551	3D	3214	5E	5058	3C
2015	4C	2552	3C	3215	8F	5059	3D
2050	3B	2553	3D	3216	7E	5070	3E
2051	3C	2554	3C	3217	7E	5071	4C
2052	3D	2555	3C	3218	7E	5072	5C
2053	4D	2556	3H	3219	7F	5073	8B
2054	3C	2558	2I	3220	6E	5117	7C
2055	3D	2560	2H	3221	7D	5150	8B
2056	3D	2562	2H	3222	7D	5180	5C
2057	3D	2563	2G	3372	7I	5190	5C
2058	4D	2564	3I	3373	7I	5200	5E
2059	5E	2570	3E	3374	7G	5570	2F
2060	5D	2574	3E	3375	7G	5650	3F
2061	5D	2580	4J	3442	7H	5651	4H
2062	5D	2587	3G	3443	7H	6002	3B
2063	4E	2600	5I	3444	7H	6051	5D
2064	4E	2601	4I	3445	7H	6100	6B
2065	4D	2602	4I	3500	8H	6150	8E
2066	4C	2603	5I	3501	9I	6201	7F
2067	4D	2606	6I	3502	8I	6570	3D
2068	4D	2607	6I	3503	8J	6590	3I
2069	5D	2608	6H	3515	5G	6600	5I
2070	5D	2630	5F	3556	3H	6605	3H
2075	6E	2650	3F	3558	2I	6606	3H
2076	7F	2651	3F	3560	2H	6607	3I
2100	5A	2652	4G	3562	2I	6610	5H
2101	5A	2654	4F	3564	3J	6870	8D
2102	6B	2660	6F	3565	3J	6871	9D
2150	7C	2710	8G	3590	3I	6874	8H
2151	7C	2711	8G	3591	2I	6875	5F
2152	7C	2750	5E	3600	5I	7050	4D
2153	8B	2782	4F	3601	6I	7052	5D
2154	8C	2783	4F	3602	6I	7150	8C
2155	7B	2784	7G	3603	6I	7152	8E
2156	7C	2785	7G	3604	6I	7180	6C
2157	6D	2786	3F	3605	5I	7200	6D
2158	7D	2850	6G	3610	5H	7202	7E
2159	7D	3002	3B	3611	5H	7210	6E
2160	8D	3003	3B	3615	4H	7211	7F
2161	8C	3004	3B	3616	5H	7212	7D
2163	8C	3011	4B	3620	5I	7370	7G
2164	7E	3050	3C	3621	7I	7500	7I
2180	5C	3051	3C	3622	5I	7515	5G
2182	6C	3052	5D	3625	4I	7550	2D
2183	7C	3053	6D	3630	5F	7590	2J
2184	5C	3054	4E	3631	5F	7591	2I
2185	5C	3055	4C	3632	5F	7600	5J
2186	6C	3056	5D	3650	5G	7601	5J
2187	6C	3058	4C	3651	6G	7603	5J
2188	6D	3060	5D	3652	5G	7604	6I
2190	7C	3100	5B	3653	5G	7605	5I
2191	6C	3101	5B	3654	5F	7606	6I
2193	6C	3102	6B	3655	5F	7607	4I
2200	6D	3111	6B	3656	5G	7611	5H
2201	6E	3115	7C	3660	7F	7630	5F
2202	6E	3116	7B	3661	6F	7650	5G
2203	6E	3125	6C	3662	6F	7651	8F
2204	7E	3150	7C	3663	3E	7660	7F
2205	6E	3151	7B	3664	4F	7661	4G
2206	6E	3153	8C	3710	9F	7710	8G
2207	7E	3154	8C	3711	9G	7711	8G
2208	7E	3155	7B	3712	8G	7712	5E
2209	7E	3156	7B	3713	9G	7750	5E
2210	6E	3157	6B	3714	9F	7780	4E
2211	7E	3158	7D	3715	9G	9501	3I
2212	8D	3159	7D	3716	6F	9502	3F
2213	7D	3161	8E	3717	5F	9600	5I
2214	8E	3162	7E	3783	4F	9601	5I
2215	7D	3163	8E	3852	6H	9602	5H
2216	6F	3164	8C	3853	6H	9611	5H
2372	6G	3165	8C	3854	6H		
2440	7I	3168	7F	3860	8E		
2441	7H	3169	7C	3861	8E		
2442	7H	3170	6F	3862	8E		
2443	7H	3180	6C	3863	8F		
2444	7H	3181	5C	3864	8F		
2445	7H	3182	7C	3865	8F		
2446	8H	3183	6C	3866	9F		
2447	8H	3184	6D	3870	8I		
2448	6I	3185	6D	3871	8I		







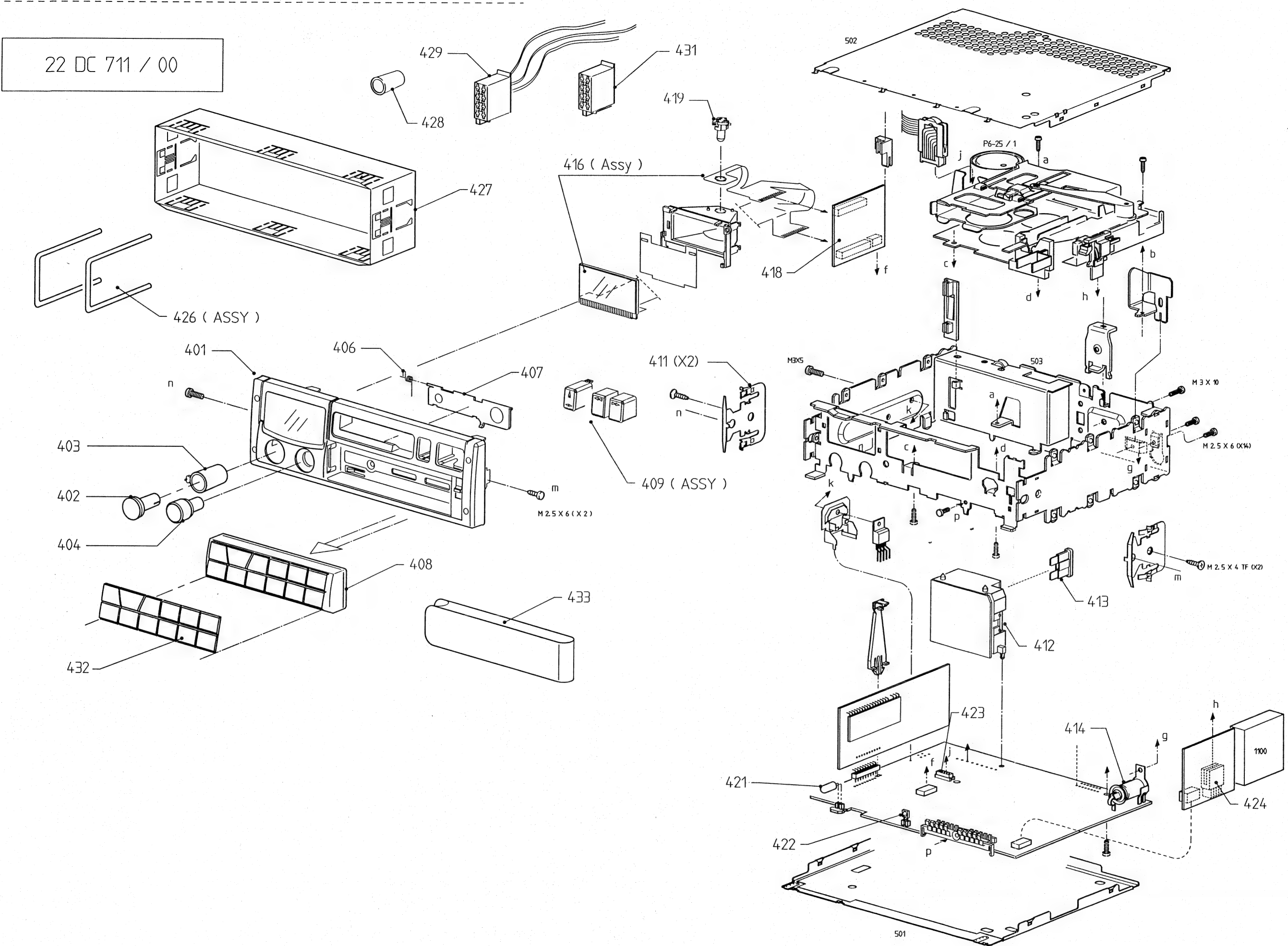


# Mechanical Partslist

401	4822 459 50711	FRONT	416	4822 130 91101	LCD ASSY
402	4822 413 31695	KNOB VOLUME	418	4822 321 61565	PCB ASSY LCD
403	4822 413 31697	FADER LEVER	419	4822 134 41111	LAMP FLEXBASE 14V
404	4822 413 31696	KNOB TONE	421	4822 134 41112	LAMP 14V 80MA
406	4822 492 71033	FLAP SPRING	422	4822 130 82996	LED RED
407	4822 443 411	FLAP CASSETTE	423	4822 267 50872	CONNECTOR DECK
408	4822 691 10369	DET. UNIT IN CASE	424	4822 267 41008	CONNECTOR DECK HEAD
409	4822 410 61842	SET OF BUTTONS DECK	426	4822 404 20437	DEMOUNTING BRACKETS
411	4822 492 71046	SPRING CLAMPING	427	4822 443 30463	SLEEVE
412	4822 290 61081	CONNECTOR BLOCK	428	4822 532 11092	BUFFER MOUNTING
413	4822 071 25002	FUSE T5A 250V	429	4822 321 10551	CABLE ADAPTER SUPPLY
414	4822 267 30883	AERIAL BUSH ASSY	431	4822 267 41052	LOUDSPEAKER CONNECT



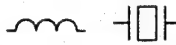



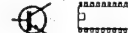


22 DC 711 / 00



Miscellaneous			-II-		
1100	4822 210 10305	TUNER	2160	4822 124 40244	2,2μF20% 63V
1750	4822 214 51833	RDS Thickfilm	2161	4822 122 33181	150pF 5% NP0 50V
1860	4822 276 13103	SWITCH	2163	4822 122 33514	68pF 5%NP0 50V
1861	4822 276 13103	SWITCH	2164	4822 122 33498	2,7nF10%X7R 63V
1862	4822 276 13103	SWITCH	2180	4822 122 33555	22nF10%
1863	4822 276 13103	SWITCH	2182	4822 122 32891	68nF10%X7R 63V
1864	4822 276 13103	SWITCH	2183	4822 122 32916	220nF10%X7R 63V
1865	4822 276 13103	SWITCH	2184	4822 122 33555	22nF10%
1866	4822 276 13103	SWITCH	2185	4822 124 23624	47μF20% 16V
1867	4822 276 13103	SWITCH	2186	4822 124 23624	47μF20% 16V
1868	4822 276 13103	SWITCH	2187	5322 122 32659	33pF 5% 50V
1869	4822 276 13103	SWITCH	2188	4822 122 33555	22nF10%
1870	4822 276 13103	SWITCH	2190	4822 122 32542	47nF10%X7R 63V
1871	4822 276 13103	SWITCH	2191	4822 122 32597	6,8nF10%X7R 63V
1874	4822 100 30171	POT.Vol., On/ Off, Bal , Fad	2193	4822 122 32916	220nF10%X7R 63V
1875	4822 100 20855	POT. Bass, Treble	2200	4822 122 32916	220nF10%X7R 63V
-II-			2201	4822 122 33555	22nF10%
2000	4822 051 20008	0Ω 5% 0,1W	2202	4822 122 33496	100nF10%X7R 63V
2001	4822 051 20008	0Ω 5% 0,1W	2203	4822 122 31768	180pF 5% 50V
2002	4822 051 20008	0Ω 5% 0,1W	2204	5322 122 32268	470pF 10% 50V
2003	4822 051 20008	0Ω 5% 0,1W	2205	5322 122 32268	470pF 10% 50V
2015	4822 122 33177	10nF 10% X7R 50V	2206	4822 122 33555	22nF10%
2050	4822 122 32442	10nF 50V	2207	5322 122 31866	6,8nF10%X7R 63V
2051	5322 122 32287	4,7pF 5%NP0 50V	2208	5322 122 31866	6,8nF10%X7R 63V
2052	5322 122 32448	10pF 5% 50V	2209	4822 122 33496	100nF10%X7R 63V
2053	5322 122 32659	33pF 5% 50V	2210	4822 124 23624	47μF20% 16V
2054	4822 122 33514	68pF 5%NP0 50V	2211	4822 124 23624	47μF 20% 16V
2055	4822 122 33515	82pF 5%NP0 63V	2212	4822 122 31766	120pF 5% 50V
2056	4822 122 33514	68pF 5%NP0 50V	2213	4822 122 32916	220nF 10% X7R 63V
2057	4822 122 33177	10nF 20% X7R 50V	2214	4822 122 32916	220nF10%X7R 63V
2058	4822 122 32916	220nF10%X7R 63V	2215	4822 122 33216	270pF 5%NP0 50V
2059	4822 124 23624	47μF20% 16V	2216	4822 124 41873	4,7μF20% 35V
2060	4822 122 33216	270pF 5%NP0 50V	2250	4822 122 33173	560pF 10% X7R 50V
2061	4822 122 33555	22nF10%	2251	4822 122 33173	560pF 10% X7R 50V
2062	4822 122 33216	220pF 5%NP0 50V	2252	4822 122 33173	560pF 10% X7R 50V
2063	4822 124 41969	1μF20% 50V	2253	4822 122 33173	560pF 10% X7R 50V
2064	4822 124 23624	47μF20% 16V	2254	4822 122 33176	2,7nF 20% X7R 50V
2065	4822 122 33496	100nF10%X7R 63V	2255	4822 122 33176	2,7nF 20% X7R 50V
2066	5322 122 32658	22ppFF 5% 50V	2259	4822 124 22403	10μF 20% 16V
2067	4822 122 33496	100nF10%X7R 63V	2265	4822 124 23432	100μF20% 10V
2068	4822 124 23624	47μF20% 16V	2266	4822 122 33555	22nF10%
2069	4822 122 33177	10nF 20% X7R 50V	2268	4822 124 23432	100μF20% 10V
2070	4822 122 33555	22nF10%	2269	4822 124 23432	100μF20% 10V
2075	4822 122 33496	100nF10%X7R 63V	2372	4822 122 33177	10nF 20% X7R 50V
2076	4822 122 33496	100nF10%X7R 63V	2440	4822 122 33496	100nF10%X7R 63V
2100	4822 122 33555	22nF10%	2441	4822 122 33496	100nF10%X7R 63V
2101	4822 122 33177	10nF 20% X7R 50V	2442	4822 122 33496	100nF10%X7R 63V
2102	4822 122 33177	10nF 20% X7R 50V	2443	4822 122 33496	100nF10%X7R 63V
2150	4822 122 33496	100nF10%X7R 63V	2444	4822 122 33128	15nF10%X7R 63V
2151	4822 122 32542	47nF10%X7R 63V	2445	4822 122 33128	15nF10%X7R 63V
2152	4822 122 32542	47nF10%X7R 63V	2446	4822 122 33496	100nF10%X7R 63V
2153	4822 122 33515	82pF 5%NP0 63V	2447	4822 122 33496	100nF10%X7R 63V
2154	4822 122 33555	22nF10%	2448	4822 124 41971	2,2μF20% 50V
2155	4822 122 33496	100nF10%X7R 63V	2449	4822 124 41971	2,2μF20% 50V
2156	4822 122 32542	47nF10%X7R 63V	2500	4822 122 33496	100nF10%X7R 63V
2157	4822 124 23624	47μF20% 16V	2501	4822 124 23432	100μF20% 10V
2158	5322 126 10223	4,7nF 10% X7R 63V	2502	4822 122 33496	100nF10%X7R 63V
2159	5322 126 10223	4,7nF 10% X7R 63V	2503	4822 122 33496	100nF10%X7R 63V
			2506	4822 121 51252	470nF 5% 63V

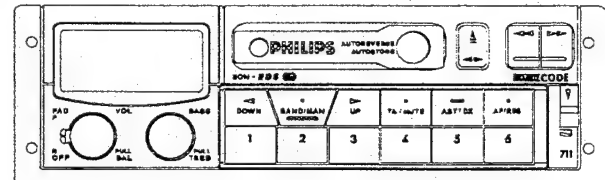
-II-			-II-		
2507	4822 121 51252	470nF 5% 63V	3002	4822 051 20008	0Ω 5% 0,1W
2508	4822 122 32916	220nF10%X7R 63V	3003	4822 051 20008	0Ω 5% 0,1W
2509	4822 122 32916	220nF10%X7R 63V	3004	4822 051 20008	0Ω 5% 0,1W
2510	4822 122 32916	220nF10%X7R 63V	3011	4822 051 20008	0Ω 5% 0,1W
2511	4822 122 32916	220nF10%X7R 63V	3050	4822 051 20561	560Ω 5% 0,1W
2512	4822 124 22403	10μF 20% 16V	3051	4822 051 20471	470Ω 5% 0,1W
2513	4822 124 22403	10μF 20% 16V	3052	4822 051 20184	180K00 5% 0,1W
2515	4822 122 33496	100nF10%X7R 63V	3053	4822 051 20472	4K70 5% 0,1W
2550	5322 122 32268	470pF 10% 50V	3054	4822 051 20102	1K00 5% 0,1W
2551	5322 122 32268	470pF 10% 50V	3055	4822 051 20102	1K00 5% 0,1W
2552	5322 122 32268	470pF 10% 50V	3056	4822 051 20273	27K 5% 0,1W
2553	5322 122 32268	470pF 10% 50V	3058	4822 051 20474	470K00 5% 0,1W
2554	4822 122 33496	100nF10%X7R 63V	3060	4822 051 20103	10K00 5% 0,1W
2555	4822 124 23624	47μF20% 16V	3100	4822 051 20103	10K00 5% 0,1W
2556	5322 126 10223	4,7nF10%X7R 63V	3101	4822 051 20109	10Ω 5% 0,1W
2558	5322 126 10223	4,7nF10%X7R 63V	3102	4822 051 20471	470Ω 5% 0,1W
2560	5322 126 10223	4,7nF10%X7R 63V	3111	4822 051 20569	56Ω 5% 0,1W
2562	5322 126 10223	4,7nF10%X7R 63V	3115	4822 051 20569	56Ω 5% 0,1W
2563	4822 124 40201	100μF20% 16V	3116	4822 051 20102	1K00 5% 0,1W
2564	4822 124 40201	100μF20% 16V	3125	4822 051 20102	1K00 5% 0,1W
2570	4822 124 40723	2200μF20% 16V	3150	4822 051 20331	330Ω 5% 0,1W
2574	4822 122 33555	22nF10%	3151	4822 051 20331	330Ω 5% 0,1W
2575	4822 122 32142	270pF 5% 63V	3153	4822 051 20222	2K2 5% 0,1W
2576	4822 122 32142	270pF 5% 63V	3154	4822 051 20109	10Ω 5% 0,1W
2580	4822 124 41796	22μF20% 16V	3155	4822 100 20166	10K 30%LIN 0,1W
2600	4822 124 22403	10μF 20% 16V	3156	4822 051 20222	2K20 5% 0,1W
2601	4822 124 23432	100μF 20% 16V	3157	4822 100 20166	10K 30%LIN 0,1W
2602	4822 124 23432	100μF20% 10V	3158	4822 051 20109	10Ω 5% 0,1W
2603	4822 124 23624	47μF20% 16V	3159	4822 051 20681	680R 5% 0,1W
2606	4822 122 33496	100nF10%X7R 63V	3161	4822 051 20683	68K 5% 0,1W
2607	4822 122 33498	2,7nF10%X7R 63V	3162	4822 051 20222	2,2K 5% 0,1W
2608	4822 124 40244	2,2μF20% 63V	3163	4822 051 20271	270Ω 5% 0,1W
2630	4822 124 41796	22μF20% 16V	3164	4822 051 20102	1K00 5% 0,1W
2650	5322 122 32659	33pF 5% 50V	3165	4822 051 20102	1K00 5% 0,1W
2651	5322 122 32659	33pF 5% 50V	3166	4822 051 20008	0Ω 5% 0,1W
2652	4822 122 33496	100nF10%X7R 63V	3169	4822 051 20331	330Ω 5% 0,1W
2654	4822 122 33496	100nF10%X7R 63V	3170	4822 051 20008	0Ω 5% 0,1W
2660	4822 122 33555	22nF 10%	3180	4822 051 20103	10K00 5% 0,1W
2710	4822 122 33555	22nF10%	3181	4822 051 20103	10K00 5% 0,1W
2711	4822 124 41969	1μF20% 50V	3182	4822 051 20331	330Ω 5% 0,1W
2750	4822 122 33496	100nF10%X7R 63V	3183	4822 051 20475	4M70 5% 0,1W
2753	4822 122 33496	100nF10%X7R 63V	3184	4822 051 20102	1K00 5% 0,1W
2755	4822 122 33496	100nF10%X7R 63V	3185	4822 051 20102	1K00 5% 0,1W
2756	4822 124 40272	33μF20% 16V	3190	4822 051 20332	3K30 5% 0,1W
2758	4822 124 41796	22μF20% 16V	3200	4822 051 20273	27K00 5% 0,1W
2759	4822 122 33496	100nF10%X7R 63V	3201	4822 051 20104	100K00 5% 0,1W
2762	4822 122 33214	2,2μF20% 63V	3202	4822 051 20222	2K20 5% 0,1W
2763	4822 122 33214	27 pF 5% NP0	3203	4822 051 20474	470K00 5% 0,1W
2765	5322 122 32659	33pF 5% 50V	3204	4822 051 20105	1M00 5% 0,1W
2766	5322 122 32659	33pF 5% 50V	3205	4822 051 20393	39K00 5% 0,1W
2772	4822 122 33496	100nF10%X7R 63V	3206	4822 051 20393	39K00 5% 0,1W
2773	4822 122 33496	100nF10%X7R 63V	3207	4822 051 20474	470K00 5% 0,1W
2782	4822 124 40244	2,2μF20% 63V	3208	4822 051 20273	27K 5% 0,1W
2783	4822 122 32542	47nF10%X7R 63V	3209	4822 100 11163	100K 30%LIN 0,1W
2784	5322 122 31647	1nF10%X7R 63V	3210	4822 051 20471	470Ω 5% 0,1W
2785	5322 122 31647	1nF10%X7R 63V	3211	4822 051 20104	100K00 5% 0,1W
2786	4822 122 33555	22nF10%	3212	4822 051 20103	10K00 5% 0,1W
2850	4822 122 33496	100nF10%X7R 63V	3213	4822 051 20681	680Ω 5% 0,1W
			3214	4822 051 20109	10R 5% 0,1W

					
3215	4822 051 20475	4M7 5% 0.1W	3660	4822 051 20103	10K 5% 0.1W
3216	4822 051 20472	4K70 5% 0.1W	3661	4822 051 20475	4M7 5% 0.1W
3217	4822 051 20103	10K00 5% 0.1W	3662	4822 051 20334	330K 5% 0.1W
3218	4822 051 20472	4K70 5% 0.1W	3663	4822 051 20103	10K 5% 0.1W
3219	4822 051 20472	4K70 5% 0.1W	3664	4822 051 20103	10K 5% 0.1W
3220	4822 051 20104	100K00 5% 0.1W	3710	4822 051 20331	330Ω 5% 0.1W
3221	4822 051 20683	68K00 5% 0.1W	3711	4822 051 20105	1M00 5% 0.1W
3222	4822 051 20273	27K 5% 0.1W	3712	4822 051 20105	1M00 5% 0.1W
3252	4822 051 20151	150Ω 5% 0.1W	3713	4822 051 20223	22K00 5% 0.1W
3253	4822 051 20151	150Ω 5% 0.1W	3714	4822 051 20223	22K00 5% 0.1W
3254	4822 051 20105	1M00 5% 0.1W	3715	4822 051 20105	1M00 5% 0.1W
3255	4822 051 20105	1M00 5% 0.1W	3716	4822 051 20104	100K00 5% 0.1W
3258	4822 051 20563	56K00 5% 0.1W	3717	4822 051 20104	100K00 5% 0.1W
3259	4822 051 20563	56K00 5% 0.1W	3777	4822 051 20221	220Ω 5% 0.1W
3262	4822 051 20473	47K00 5% 0.1W	3783	4822 051 20334	330K00 5% 0.1W
3372	4822 051 20105	1M0 5% 0.1W	3852	4822 051 20103	10K 5% 0.1W
3373	4822 051 20105	1M0 5% 0.1W	3853	4822 051 20222	2K20 5% 0.1W
3374	4822 051 20102	1K00 5% 0.1W	3854	4822 051 20184	180K00 5% 0.1W
3375	4822 051 20562	5K60 5% 0.1W	3860	4822 050 11002	1K00 1% 0.4W
3442	4822 051 20103	10K00 5% 0.1W	3861	4822 050 11002	1K00 1% 0.4W
3443	4822 051 20103	10K00 5% 0.1W	3862	4822 050 11002	1K00 1% 0.4W
3444	4822 051 20333	33K00 5% 0.1W	3863	4822 050 11002	1K00 1% 0.4W
3445	4822 051 20333	33K00 5% 0.1W	3864	4822 050 11002	1K00 1% 0.4W
3500	4822 051 20472	4K70 5% 0.1W	3865	4822 050 11002	1K00 1% 0.4W
3501	4822 051 20472	4K70 5% 0.1W	3866	4822 050 11002	1K00 1% 0.4W
3502	4822 051 20472	4K70 5% 0.1W	3870	4822 051 20152	1K5 5% 0.1W
3503	4822 051 20472	4K70 5% 0.1W	3871	4822 051 20562	5K60 5% 0.1W
3515	4822 051 20105	1M00 5% 0.1W	3872	4822 051 20222	2K2 5% 0.1W
3556	4822 051 20478	4R70 5% 0.1W	3875	4822 051 20152	1K50 5% 0.1W
3558	4822 051 20478	4R70 5% 0.1W	3876	4822 051 20152	1K50 5% 0.1W
3560	4822 051 20478	4R70 5% 0.1W	3877	4822 051 20152	1K50 5% 0.1W
3562	4822 051 20478	4R70 5% 0.1W	3878	4822 051 20152	1K50 5% 0.1W
3564	4822 051 20223	22K00 5% 0.1W	3879	4822 051 20332	3K30 5% 0.1W
3565	4822 051 20102	1K00 5% 0.1W	3880	4822 051 20562	5K60 5% 0.1W
3590	4822 051 20471	470Ω 5% 0.1W	3880	4822 116 52215	220E 5% 0.5W
3591	4822 051 20334	330K00 5% 0.1W	3881	4822 116 52215	220E 5% 0.5W
3600	4822 051 20184	180K00 5% 0.1W	3882	4822 116 52215	220E 5% 0.5W
3601	4822 051 20333	33K00 5% 0.1W	4250	4822 051 20478	4R70 5% 0.1W
3602	4822 051 20473	47K00 5% 0.1W	4251	4822 051 20478	4R70 5% 0.1W
3603	4822 051 20103	10K00 5% 0.1W			
3604	4822 051 20473	47K00 5% 0.1W			
3605	4822 051 20109	10Ω 5% 0.1W	5050	4822 152 20677	10uH
3610	4822 051 20562	5K60 5% 0.1W	5051	4822 152 20677	10uH
3611	4822 051 20102	1K00 5% 0.1W	5052	4822 157 60122	4.7uH
3615	4822 051 20103	10K00 5% 0.1W	5053	4822 152 20677	10uH
3616	4822 051 20184	180K00 5% 0.1W	5054	4822 157 50975	1 MH
3620	4822 051 20472	4K70 5% 0.1W	5055	4822 152 20682	Adj.ind. 6.15uH 10.7MHz
3621	4822 051 20153	15K00 5% 0.1W	5056	4822 152 20678	33uH
3622	4822 051 20472	4K70 5% 0.1W	5057	4822 152 20683	Adj.ind. 28MHz 2.52MHz
3625	4822 116 40216	4R7	5058	4822 157 52983	22uH
3630	4822 051 20184	180K00 5% 0.1W	5059	4822 157 52983	22uH
3631	4822 051 20473	47K00 5% 0.1W	5070	4822 242 72076	10,700 000MC
3632	4822 051 20473	47K00 5% 0.1W	5071	4822 242 72076	10,700 000MC
3650	4822 051 20473	47K00 5% 0.1W	5072	4822 242 71883	SFE10,7MS318-D
3651	4822 051 20473	47K00 5% 0.1W	5073	4822 242 71883	SFE10,7MS318-D
3652	4822 051 20473	47K00 5% 0.1W	5117	4822 242 80368	SFE10,7MS2W4-A
3654	4822 051 20103	10K00 5% 0.1W	5150	4822 156 11081	Adj.ind.1.47uH 10.7MHz
3655	4822 051 20103	10K00 5% 0.1W	5180	4822 157 50975	1 MH
3656	4822 051 20473	47K00 5% 0.1W	5190	4822 242 71874	XTL Res.4,MHz
			5200	4822 242 81117	CSB456F11

					
5570	4822 152 20681	COIL FILTER ASSY	7611	5322 130 41983	BC858B
5650	4822 242 81118	CSA11,5MTS1	7630	4822 130 60511	BC847B
5651	4822 157 53338	1 mH	7650	4822 209 31371	UP PCF83C528 OTP.MAIN
5761	4822 242 80259	LN-G8-311 (TPR11)	7651	5322 209 11306	HEF4094BT
5762	4822 242 81118	CSA11,5MTS1	7660	4822 130 60511	BC847B
			7661	4822 130 60511	BC847B
6002	4822 252 60125	DSP201	7710	4822 130 60511	BC847B
6051	4822 130 82596	BB419	7711	4822 130 60511	BC847B
6100	4822 130 30621	1N4148	7712	5322 130 41983	BC858B
6150	5322 130 31928	BAS16	7750	4822 209 62524	X24C16P
6201	5322 130 31928	BAS16	7751	4822 209 52218	UP PCF83C654 OTP RDS
6570	5322 130 30684	1N4002	7752	5322 209 60424	PC74HC573T
6590	5322 130 31928	BAS16	7753	4822 209 31163	FCF61C65LL-85T
6600	5322 130 80214	BAS28	7780	4822 209 83159	LA2000
6605	4822 130 30621	1N4148			
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6610	4822 130 34174	BZX79-C4V7			
6870	5322 130 80214	BAS28			
6871	5322 130 80214	BAS28			
6874	5322 130 31928	BAS16			
6875	5322 130 31928	BAS16			
6880	4822 130 82989	LED TLHO2400			
6881	4822 130 82989	LED TLHO2400			
6882	4822 130 82989	LED TLHO2400			
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6891	4822 130 82989	LED TLHO2400			
					
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7052	5322 130 41983	BC858B			
7150	4822 209 73507	TEA6100.N3			
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7607	5322 209 60749	LM2931Z-5.0			

# Cassette car radio 22DC711/00

Service  
Service  
Service



## Supplement

For repair information of the Cassette deck see Service Manual N° 4822.725.23368 of Auto Cassette Deck P6-25/1

# Service Manual

12 V

From week 92 40, FD 00 become FD01

### Reason :

- For pin A4 / A7 compatibility with German cars
- Various improvements since starting of production ( as Printed Wiring Board supplier change ).

### Consequences :

- new PCB wiring diagram.
- Updated schematic diagrams.
- new electrical parts-list.

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Electrical partslist	-9-9a-10-10a



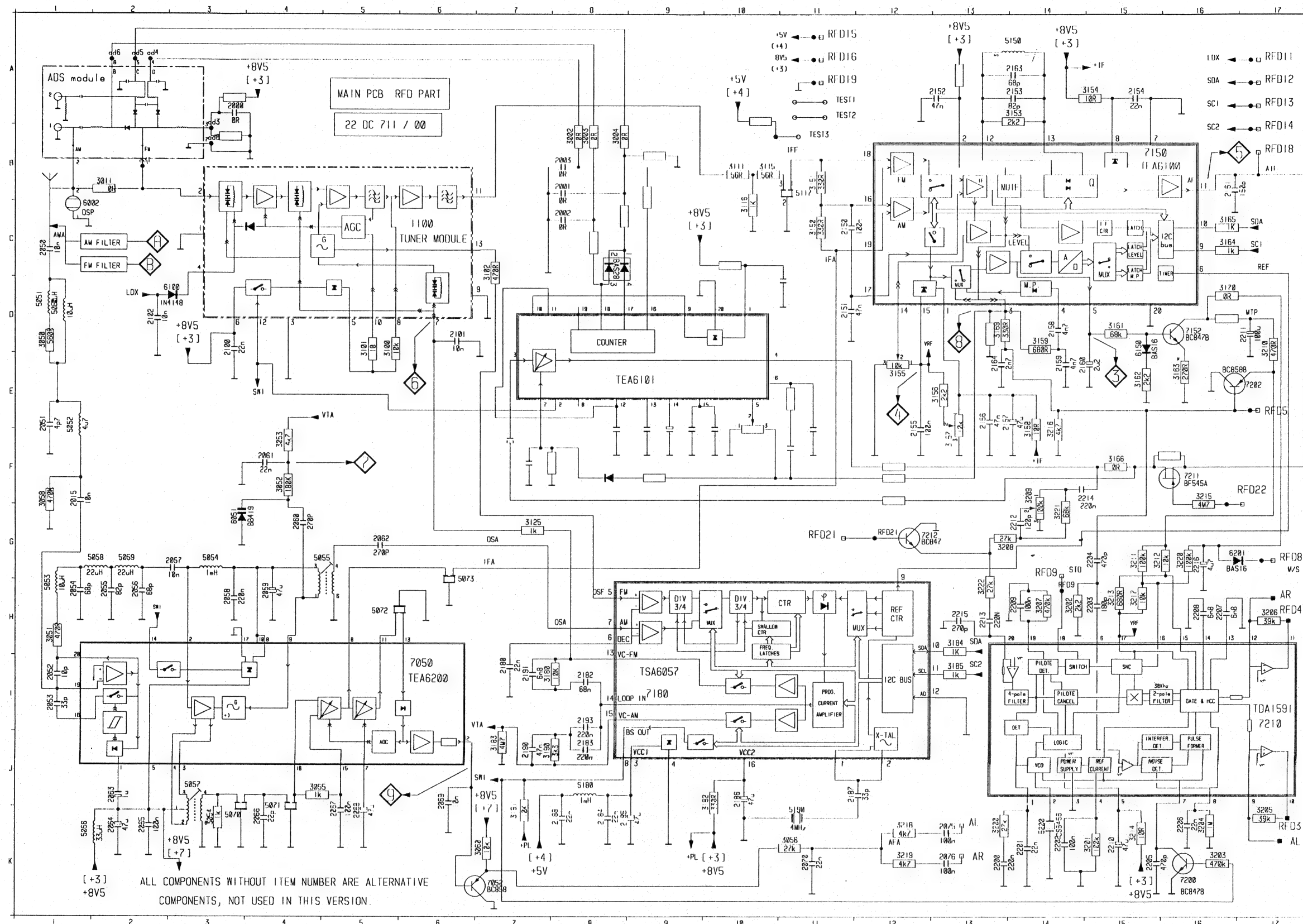
# PHILIPS

PCS68 120

**Technician's - Remarks**



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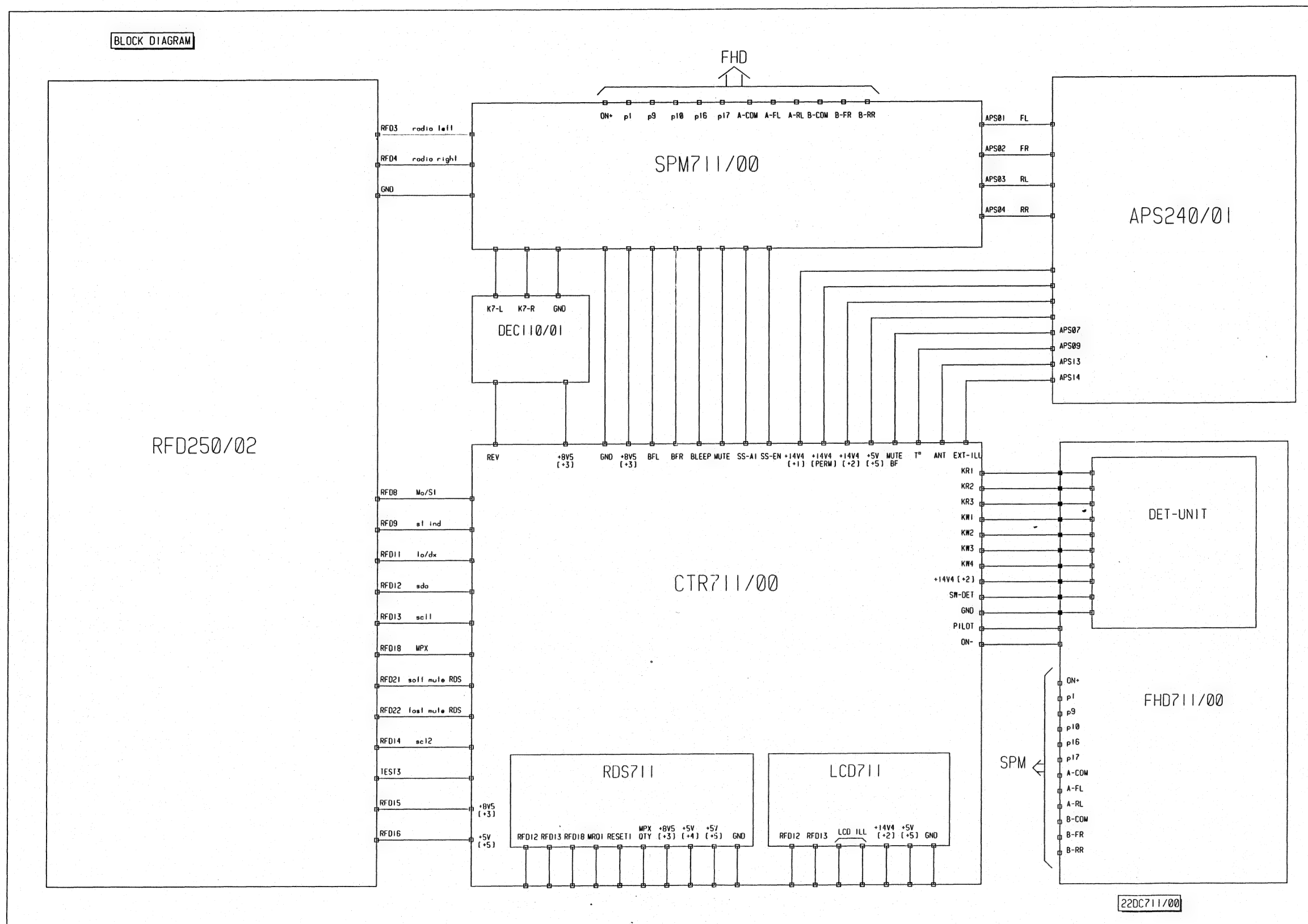
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A	2005	D10	3016	C10	6201	G16
	2006	F 7	3050	D 1	7201	E10
	2007	F 7	3051	H 1	7250	I 6
	2008	E 8	3052	F 4	7252	K 7
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	2012	F11	3056	K11	7200	K16
	2013	E11	3058	F 1	7202	I17
	2014	F10	3060	K 7	7210	I17
C	2015	F 1	3100	D 5	7211	F16
	2016	F 1	3101	D 5	7212	G12
	2017	F 1	3102	C 7		
	2018	F 1	3111	B10		
	2019	F 1	3115	B10		
D	2024	H 1	3116	C10		
	2025	H 2	3125	G 7		
	2026	G 4	3150	B11		
	2027	G 3	3151	C11		
	2028	H 3	3152	A13		
E	2029	H 4	3153	A15		
	2030	G 4	3154	A15		
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	2036	K 4	3160	D13		
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	2038	K 5	3162	E15		
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	2200	K13	3216	E14		
	2201	K14	3217	H15		
	2202	K14	3218	K12		
N	2203	H15	3219	K12		
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	2205	K15	3221	G14		
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	2216	G16	5058	D 1		
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Q	5001	A 3	5070	K 3		
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	3003	B 8	5072	K 5		
	3004	B 8	5073	H 6		
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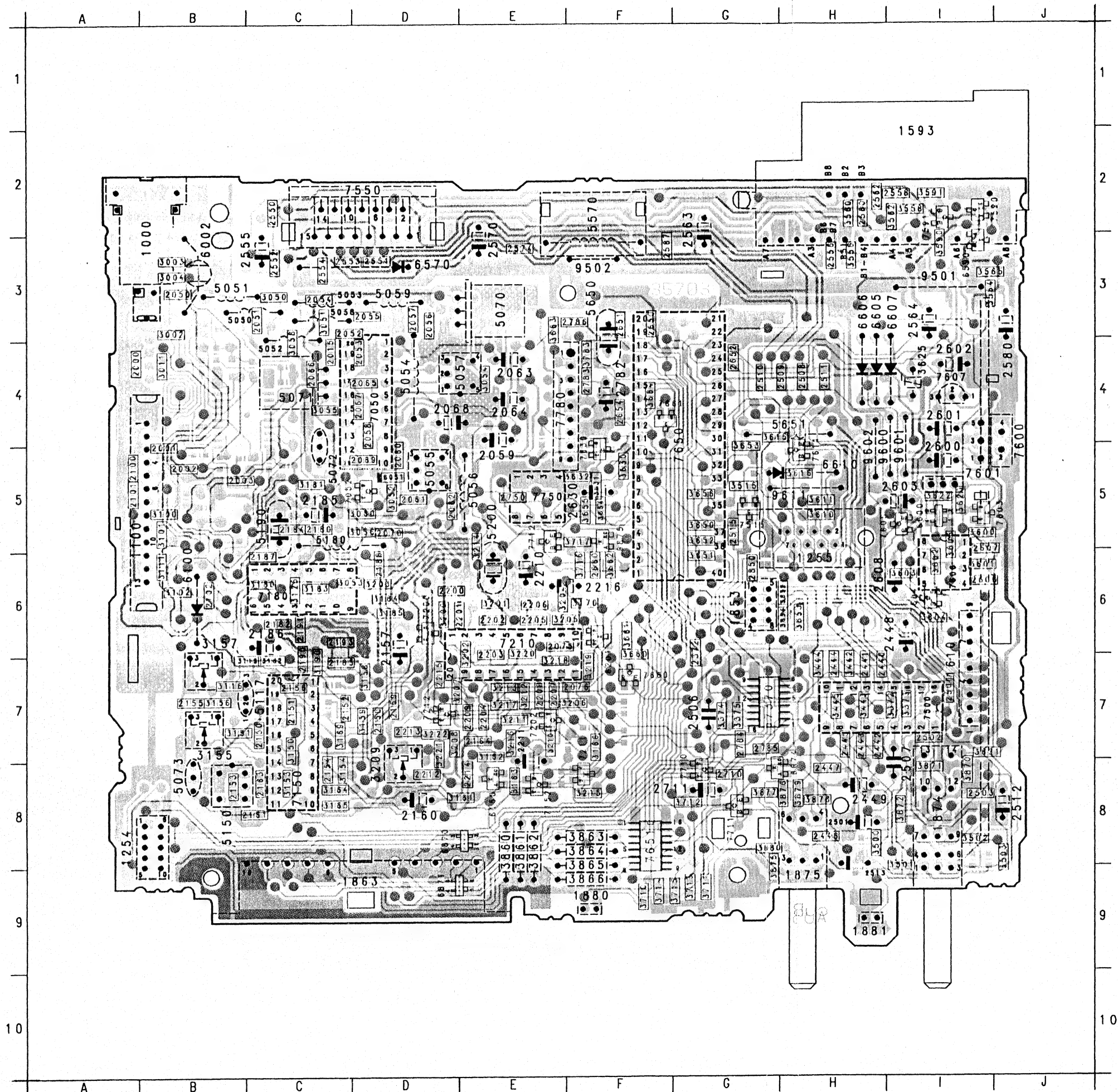


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BLOCK DIAGRAM

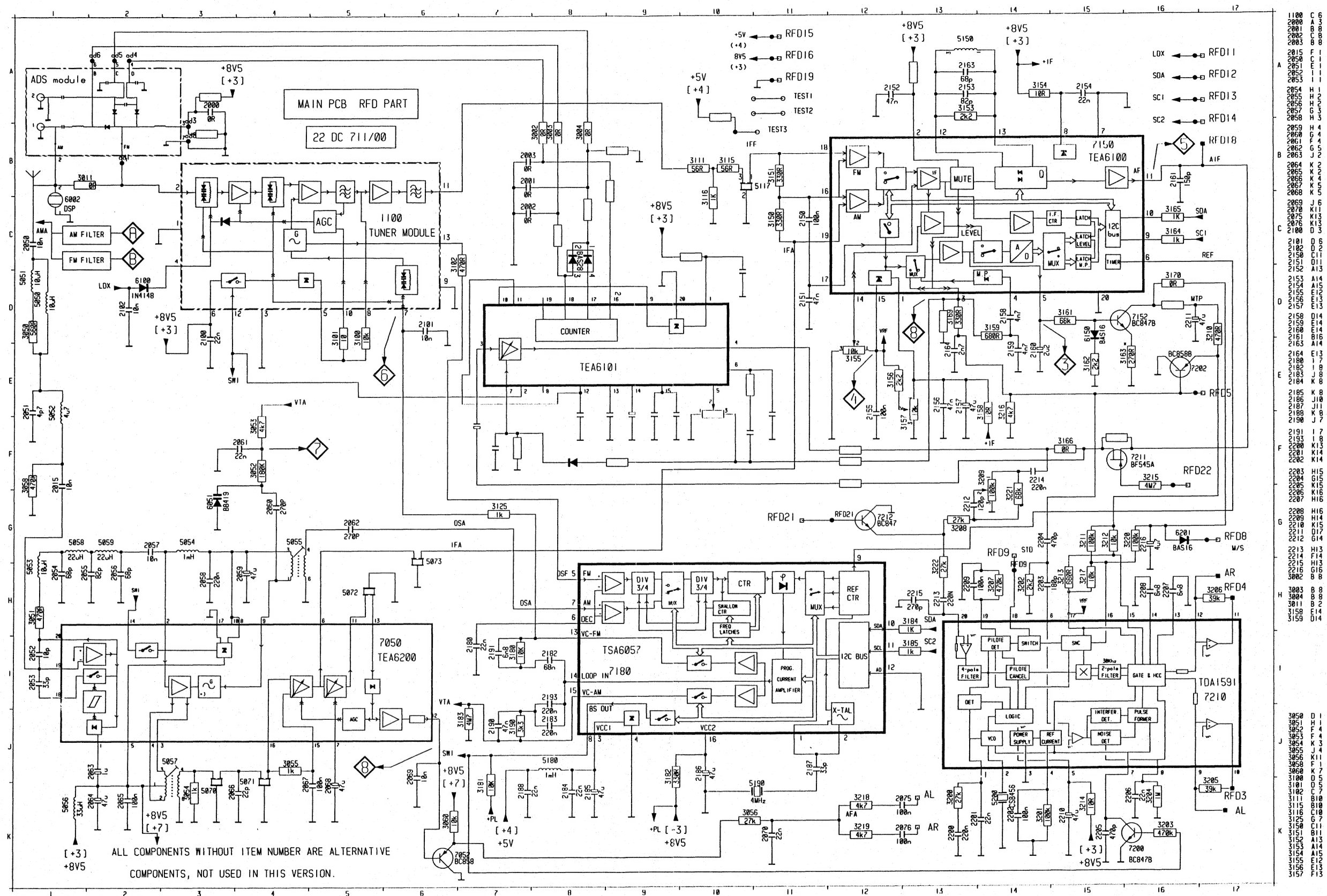


MAIN PANEL



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1100	5B	2500	7I	3200	6D	3875	9G
1254	8A	2501	8H	3201	6E	3876	8H
1255	6H	2502	7I	3202	6E	3877	8G
1593	2I	2503	8I	3203	6D	3878	8H
1610	7I	2506	7G	3204	6F	3879	8H
1853	6G	2507	8I	3205	6F	3880	8G
1863	9D	2508	4H	3206	7F	5050	3B
1874	8I	2509	4H	3207	7E	5051	3B
1875	9H	2510	4G	3208	7E	5052	4C
1880	9F	2511	4H	3209	8D	5053	3D
1881	9H	2512	8J	3210	7E	5054	4D
2000	4B	2513	9H	3211	7E	5055	5D
2001	4B	2515	5G	3212	7E	5056	5E
2002	5B	2550	2C	3213	7E	5057	4E
2003	5C	2551	3D	3214	5E	5058	3C
2015	4C	2552	3C	3215	8F	5059	3D
2050	3B	2553	3D	3216	7E	5070	3E
2051	3C	2554	3C	3217	7E	5071	4C
2052	3D	2555	3C	3218	7E	5072	5C
2053	4D	2556	3H	3219	7F	5073	8B
2054	3C	2558	2I	3220	6E	5117	7C
2055	3D	2560	2H	3221	7D	5150	8B
2056	3D	2562	2H	3222	7D	5180	5C
2057	3D	2563	2G	3372	7I	5190	5C
2058	4D	2564	3I	3373	7I	5200	5E
2059	5E	2570	3E	3374	7G	5570	2F
2060	5D	2574	3E	3375	7G	5650	3F
2061	5D	2580	4J	3442	7H	5651	4H
2062	5D	2587	3G	3443	7H	6002	3B
2063	4E	2600	5I	3444	7H	6051	5D
2064	4E	2601	4I	3445	7H	6100	6B
2065	4D	2602	4I	3500	8H	6150	8E
2066	4C	2603	5I	3501	9I	6201	7F
2067	4D	2606	6I	3502	8I	6570	3D
2068	4D	2607	6I	3503	8J	6590	3I
2069	5D	2608	8H	3515	5G	6600	5I
2070	5D	2630	5F	3556	3H	6605	3H
2075	6E	2650	3F	3558	2I	6606	3H
2076	7F	2651	3F	3560	2H	6607	3I
2100	5A	2652	4G	3562	2I	6610	5H
2101	5A	2654	4F	3564	3J	6870	8D
2102	6B	2660	6F	3565	3J	6871	9D
2150	7C	2710	8G	3590	3I	6874	8H
2151	7C	2711	8G	3591	2I	6875	5F
2152	7C	2750	5E	3600	5I	7050	4D
2153	8B	2782	4F	3601	6I	7052	5D
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2158	7D	2850	6G	3610	5H	7202	7E
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2161	8C	3004	3B	3616	5H	7212	7D
2163	8C	3011	4B	3620	5I	7370	7G
2164	7E	3050	3C	3621	7I	7500	7I
2180	5C	3051	3C	3622	5I	7515	5G
2182	6C	3052	5D	3625	4I	7550	2D
2183	7C	3053	6D	3630	5F	7590	2J
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2191	6C	3101	5B	3654	5F	7606	6I
2193	6C	3102	6B	3655	5F	7607	4I
2200	6D	3111	6B	3656	5G	7611	5H
2201	6E	3115	7C	3660	7F	7630	5F
2202	6E	3116	7B	3661	6F	7650	5G
2203	6E	3125	6C	3662	6F	7651	8F
2204	7E	3150	7C	3663	3E	7660	7F
2205	6E	3151	7B	3664	4F	7661	4G
2206	6E	3153	8C	3710	9F	7710	8G
2207	7E	3154	8C	3711	9G	7711	8G
2208	7E	3155	7B	3712	8G	7712	5E
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2213	7D	3161	8E	3717	5F	9600	5I
2214	8E	3162	7E	3783	4F	9601	5I
2215	7D	3163	8E	3852	6H	9602	5H
2216	6F	3164	8C	3853	6H	9611	5H
2372	6G	3165	8C	3854	6H		
2440	7I	3166	7F	3860	8E		
2441	7H	3169	7C	3861	8E		
2442	7H	3170	6F	3862	8E		
2443	7H	3180	6C	3863	8F		
2444	7H	3181	5C	3864	8F		
2445	7H	3182	7C	3865	8F		
2446	8H	3183	6C	3866	9F		
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





































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	2210	H15	7	7
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H	3003	B	8	8
	3004	B	8	8
	3011	B	2	2
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	3112	B10	10	10
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	3153	A15	15	15
	3154	E12	12	12
	3156	F13	13	13





For checking and adjusting see general procedures

Check	SK				Setting of controls		
Demodulated FM levels	FM	98 MHz 1 mV $\Delta f = 22.5 \text{ KHz}$ $f_{\text{mod}} = 1 \text{ KHz}$				 200 mV $\pm 1 \text{ dB}$	
		98 MHz 1 mV $\Delta f = 6.75 \text{ KHz}$ $f_{\text{mod}} = 19 \text{ KHz}$				 60 mV $\pm 1 \text{ dB}$	
		98 MHz 1 mV $\Delta f = 3.75 \text{ KHz}$ $f_{\text{mod}} = 57 \text{ KHz}$				 32 mV $\pm 2 \text{ dB}$	
Demodulated AM level	MW	1053 KHz 1 mV 1 KHz. 30% AM				250 mV $\leq$  $\leq 500 \text{ mV}$	
VC FM	FM			87.5 MHz		 $> 1.0 \text{ V}$	
				108 MHz		 $< 6.5 \text{ V}$	
VC AM	LW			144 KHz		 $> 0.8 \text{ V}$	
	MW			1611 KHz		 $< 6.5 \text{ V}$	
Search level AM	MW	990 KHz 70 $\mu$ V				 1.75 V DC $\pm 0.1 \text{ V}$	
FM mute		93 Mhz 1 mv				  0 dB (775mV)	
		no signal				  $< -16 \text{ dB}$	

Adjustment	SK					
Quad detector	FM	93 MHz 40 $\mu$ V $\Delta f = 22.5 \text{ KHz}$		93 MHz	5150	 $\leq 200 \text{ mV}$ 
FM limiting sensivity	FM	93 MHz 13 $\mu$ V $\Delta f = 22.5 \text{ KHz}$ $f_{\text{mod}} = 1 \text{ KHz}$		93 MHz	3155	 1.6 V $\pm 0.1 \text{ V}$
Search level AM	MW	990 KHz 70 $\mu$ V unmodulated		990 KHz	3175	 1.75 V $\pm 0.1 \text{ V}$

ESD



#### WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.  
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

## DC VOLTAGES

### 1100 TUNER MODULE

1 = GND	8 = 1.6 V
2 = 0.0 V	9 = GND
3 = GND	10 = 1.8 V
4 = 0.0 V	11 = 0.0 V
5 = 1.8 V FM / 0.0 V AM	12 = 8.5 V AM / 0.2 V FM
6 = 8.5 V	13 = 1.8 V
7 = 1.3 V - 5.7 V	

### 7050 TEA6200

1 = 6.3 V AM	11 = 6.9 V AM
2 = 4.0 V AM	12 = 2.9 V AM
3 = 8.5 V AM	13 = 5.0 V AM
4 = 8.5 V AM	14 = 8.5 V AM / 0.2 V FM
5 = 8.5 V AM	15 = 4.7 V AM
6 = 7.3 V AM	16 = 4.7 V AM
7 = 1.4 V AM	17 = GND
8 = 4.0 V AM	18 = 5.7 V AM
9 = 4.0 V AM	19 = 1.0 V AM
10 = 4.0 V AM	20 = 5.7 V AM

### 7150 TEA 6100

1 = 8.5 V	11 = 4.3 V
2 = 0.7 V	12 = 4.5 V
3 = 2.6 V - 5.0 V	13 = 4.5 V
4 = 0.0 V	14 = 2.5 V
5 = 2.0 V	15 = 4.3 V
6 = 0.2 V	16 = 2.9 V
7 = GND	17 = 2.9 V
8 = 8.5 V	18 = 2.9 V
9 = 4.8 V SCL	19 = 2.9 V
10 = 4.8 V SDA	20 = GND

### 7180 TSA6057

1 = 4 MHz	9 = 0.3 V
2 = 4 MHz	10 = 4.7 V SDA
3 = 4.7 V	11 = 4.7 V SCL
4 = GND	12 = GND
5 = 1.8 V	13 = 1.3 V - 5.7 V FM
6 = 1.5 V	14 = 2.1 V
7 = 1.8 V	15 = 1.9 V - 3.4 V AM
8 = 0.2 V FM / 8.5 V AM	16 = 8.4 V

### 7210 TDA1596

1 = 4.7 V	11 = 3.8 V
2 = 5 MHz	12 = 3.8 V
3 = GND	13 = 3.8 V
4 = 3.0 V	14 = 3.8 V
5 = 8.5 V	15 = 4.3 V
6 = 2.3 V	16 = 4.3 V
7 = 2.2 V	17 = 4.3 V
8 = 2.1 V	18 = 4.8 V
9 = 3.8 V	19 = 4.8 V
10 = 3.8 V	20 = 3.0 V

### 7370 HEF 4052BT

1 = 3.1 V	9 = 4.8 V
2 = 2.7 V	10 = GND
3 = 3.7 V	11 = GND
4 = GND	12 = 3.0 V
5 = GND	13 = 3.7 V
6 = 0.0 V	14 = GND
7 = GND	15 = 3.2 V
8 = GND	16 = 7.3 V

### 7500 TDA1526

1 = 1.1 V	10 = 2.2 V
2 = 8.5 V	11 = 4.1 V
3 = 8.7 V	12 = 2.2 V
4 = 4.4 V	13 = 3.8 V
5 = 3.9 V	14 = 3.8 V
6 = 3.8 V	15 = 3.8 V
7 = 2.1 V	16 = 1.9 V
8 = 4.2 V	17 = 3.8 V
9 = 2.8 V	18 = GND

### 7550 TDA7374

1 = 7.0 V	9 = GND
2 = 7.1 V	10 = NC
3 = 14.4 V	11 = 0.7 V
4 = 0.7 V	12 = 0.7 V
5 = 0.7 V	13 = 14.4 V
6 = 0.7 V	14 = 7.0 V
7 = 4.0 V	15 = 7.0 V
8 = Earth	

### 7602 L 4918

1 = 14.4 V
2 = 2.6 V
3 = GND
4 = GND
5 = 8.5 V

### 7606 L4949

1 = 13.6 V	5 = GND
2 = 2.0 V	6 = 5.0 V
3 = N.C.	7 = 4.0 V
4 = 2.4 V	8 = 5.0 V

### 7651 HEF4094B

1 = 0.0 V	9 = N.C.
2 = 4.7 V	10 = N.C.
3 = 4.8 V	11 = 0.0 V AM / 5.0 V FM
4 = 0.0 V	12 = 0.0 V
5 = 0.0 V	13 = 0.0 V
6 = 0.0 V	14 = 0.0 V
7 = 0.0 V	15 = 5.0 V
8 = GND	16 = 5.0 V

### 7750 X2416P

1 = GND	5 = 4.8 V SDA
2 = GND	6 = 4.8 V SCL
3 = GND	7 = GND
4 = GND	8 = 5 V

### 7780 LA2000

1 = 2.0 V	6 = 4.8 V
2 = 8.0 V	7 = N.C.
3 = 2.0 V	8 = N.C.
4 = N.C.	9 = 8.5 V
5 = GND	